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RF Devices & Customer made Antenna

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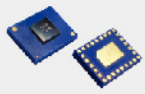
Product Portfolio


Multilayer Ceramic Capacitors


Inductors


Antenna Switch & Module

Chip Resistors


RF Filters


MOV & MLV


Disc Capacitors


Antenna


Film Capacitor


Fuse & ESD Protective


Tantalum Capacitor

IEC-63 Nominal Resistance/ Capacitance

E1	100																							
E3	100								220								470							
E6	100				150				220				330				470				680			
E12	100		120		150		180		220		270		330		390		470		560		680		820	
E24	100	110	120	130	150	160	180	200	220	240	270	300	330	360	390	430	470	510	560	620	680	750	820	910
E96	100	102	121	124	147	150	178	182	215	221	261	267	316	324	383	392	464	475	562	576	681	698	825	845
	105	107	127	130	154	158	187	191	226	232	274	280	332	340	402	412	487	499	590	604	715	732	866	887
	110	113	133	137	162	165	196	200	237	243	287	294	348	357	422	432	511	523	619	634	750	768	909	931
	115	118	140	143	169	174	205	210	249	255	301	309	365	374	442	453	536	549	649	665	787	806	953	976

E6: $\sqrt[6]{10} \fallingdotseq 1.46$ E12: $\sqrt[12]{10} \fallingdotseq 1.21$
E1 series resistance: 1Ω, 10Ω, 100Ω, 1000Ω, 10000Ω, 100000Ω

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*The specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
*This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

■ CHIP ANTENNA

RF	ANT	321612	0	A	5	T
Type code	**Product code**	**Dimension code**	**Unit of dimension**	**Application**	**Specification**	**Packing**
RF/RG: device	ANT : Antenna FRA : Free Antenna ECA : SMD Antenna	Per 2 digits of Length, Width, Thickness 321612 = Length =32 Width = 16 Thickness = 12	0 : 0.1 mm 1 : 1.0 mm	A: 2.4GHz ISM Band E : GPS 1.5GHz L : 2.4/5.2/5.8GHz Tri Band W : WiMAX	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ HIGH FREQUENCY MULTILAYER BAND PASS FILTER

RF	BPF	322515	0	A	4	T
Type code	**Product code**	**Dimension code**	**Unit of dimension**	**Application**	**Specification**	**Packing**
RF device	BPF : Band Pass Filter	Per 2 digits of Length, Width, Thickness 322515 = Length =32 Width = 25 Thickness = 15	0 : 0.1 mm 1 : 1.0 mm	A : 2.4GHz ISM Band W : WiMAX K : ISM 5.2/5.8 Dual Band	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ HIGH FREQUENCY MULTILAYER BALANCED FILTER

RF	BPB	252009	0	A	7	T
Type code	**Product code**	**Dimension code**	**Unit of dimension**	**Application**	**Specification**	**Packing**
RF/RG: device	BPB : Balanced Type Band Pass Filter	Per 2 digits of Length, Width, Thickness 252009 = Length =25 Width = 20 Thickness = 09	0 : 0.1 mm 1 : 1.0 mm	A : 2.4GHz ISM Band W : WiMAX	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ HIGH FREQUENCY MULTILAYER LOW PASS FILTER

RF	LPF	201211	0	A	0	T
Type code	**Product code**	**Dimension code**	**Unit of dimension**	**Application**	**Specification**	**Packing**
RF device	LPF : Low Pass Filter	Per 2 digits of Length, Width, Thickness 201210 = Length =20 Width = 12 Thickness = 11	0 : 0.1 mm 1 : 1.0 mm	A : 2.4GHz ISM Band K : ISM 5.2/5.8 Dual Band	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ HIGH FREQUENCY MULTILAYER HIGH PASS FILTER

RF	HPF	252009	0	L	0	T
Type code	**Product code**	**Dimension code**	**Unit of dimension**	**Application**	**Specification**	**Packing**
RF device	HPF : High Pass Filter	Per 2 digits of Length, Width, Thickness 252009 = Length =2.5 Width = 2.0 Thickness = 0.9	0 : 0.1 mm 1 : 1.0 mm	L : 2.4/4.9/5.2/5.8GHz Multiband Application	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ BALUN TRANSFORMERS

RF	BLN	201208	0	A	4	T
Type code	**Product code**	**Dimension code**	**Unit of dimension**	**Application**	**Specification**	**Packing**
RF/RG: device	BLN : BALUN	Per 2 digits of Length, Width, Thickness 201208 = Length =20 Width = 12 Thickness = 08	0 : 0.1 mm 1 : 1.0 mm	A : 2.4GHz ISM Band K : ISM 5.2/5.8 Dual Band	Code from 0~9 dependent on different electrical specification	T: 7" Reeled G: 13" Reeled

■ DIPLEXER

RF	DIP	201210	0	L	0	T
Type code	**Product code**	**Dimension code**	**Unit of dimension**	**Application**	**Specification**	**Packing**
RF device	DIP : Diplexer	Per 2 digits of Length, Width, Thickness 201210 = Length =20 Width = 12 Thickness = 10	0 : 0.1 mm 1 : 1.0 mm	L : 2.4/4.9/5.2/5.8GHz Multiband Application	Code from 0~9 dependent on different electrical specification	T : 7" Reeled G:13" Reeled

■ TRIPLEXER

RF	TIP	2109	A	T	M0T63
Type code	**Product code**	**Dimension code**	**Pin Define**	**Application**	**Specification**
RF device	TIP : Triplexer	Per 2 digits of Length, Width, Thickness e.g. : 21 = Length 2.0 mm, Width 1.2 mm, 09= Thickness 0.9 mm	Design Code	T: GPS/ ISM 2.4GHz/5 GHz	Design Code

■ COUPLER

RF	CPL	18	10	B	2450	T
Type code	**Product code**	**Dimension code**	**Coupling Factor**	**Unit**	**Application**	**Packing**
RF device	Coupler	e.g. : 18 = Length 16, Width 08, 15= Length 10, Width 05,	10 dB	dB	2.4 GHZ ISM Band	T : 7" Reeled

■ SAW FILTER

SF	1411	2595	B38	03	T
Type code	**Dimension code**	**Frequency**	**Application**	**Serial Number**	**Packing**
SF:SAW Filter DF:SAW DUPLEXER	Per 2 digits of Length, Width 1411= Length 1.4mm Width 1.1mm	2595:Center Freq (2595MHz)	B38:Band38	Design Code	T: 7" Reeled

■ BAW FILTER

BA	1109	2350	B40	E	1	T
Type code	**Dimension code**	**Frequency**	**Application**	**Specification**	**Serial Number**	**Packing**
BA:BAW Filter DA:BAW Duplexer (D:Duplexer /A:Baw)	Per 2 digits of Length, Width 1109= Length 1.1mm Width 0.9mm	2350:Center Freq (2350MHz)	B40: Band 40	Design code	Code from 0~9 & A~Z dependent on different electrical specification	T: Taping

■ ANTENNA SWITCH

RF	ASW	D	H2418A	T
Type code	**Product code**	**Application**	**Serial Number**	**Packing**
RF device	ASW: Antenna Switch	D: SP8T	Design Code	T: 7" Reeled

■ Dipole Antenna

RF	DPA	8709	00	S	B	A	B	8	01
Type code	**Product code**	**Dimension code**	**Cable Length code**	**Connector Brand code**	**Type of Connector code**	**Application code**	**Project status code**	**Wire Diameter code**	**Project code**
RF device	DPA : Dipole Antenna	Per 2 digits of Length, Width 8709 = Length = 87 Width = 9.95	2 digits for cable length 00= None Cable	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 5: 5 GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band T:LTE band U:UHF W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:ø0.81 2:ø1.32 3:ø1.13 4:Low Lossø1.13 5:ø0.50 6:RG316 7:ø1.37 8:RG178 9:Low Lossø1.37 A:RG174 B:1.5C-2V	01~99 series number

■ PCB Antenna

RF	PCA	4305	10	N	N	A	B	4	01
Type code	**Product code**	**Dimension code**	**Cable Length code**	**Connector Brand code**	**Type of Connector code**	**Application code**	**Project status code**	**Wire Diameter code**	**Project code**
RF device	PCA : PCB Antenna	Per 2 digits of Length, Width 4305 = Length = 43 Width = 5	2 digits for cable length 10= Cable Length: 10cm	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 5: 5 GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band T:LTE band U:UHF W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:ø0.81 2:ø1.32 3:ø1.13 4:Low Lossø1.13 5:ø0.50 6:RG316 7:ø1.37 8:RG178 9: Low Lossø1.37 A:RG174 B:1.5C-2V	01~99 series number

■ FPA Antenna

RF	FPA	3025	10	I	M	A	B	3	01
Type code	**Product code**	**Dimension code**	**Cable Length code**	**Connector Brand code**	**Type of Connector code**	**Application code**	**Project status code**	**Wire Diameter code**	**Project code**
RF device	FPA : FPA Antenna	Per 2 digits of Length, Width 3025 = Length = 30 Width = 25	2 digits for cable length 10= Cable Length: 10cm	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 5: 5 GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band T:LTE band U:UHF W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:ø0.81 2:ø1.32 3:ø1.13 4:Low Lossø1.13 5:ø0.50 6:RG316 7:ø1.37 8:RG178 9: Low Lossø1.37 A:RG174 B:1.5C-2V	01~99 series number

■ Metal Antenna

RF	MTA	3109	10	I	M	L	B	7	01
Type code	**Product code**	**Dimension code**	**Cable Length code**	**Connector Brand code**	**Type of Connector code**	**Application code**	**Project status code**	**Wire Diameter code**	**Project code**
RF device	MTA : Metal Antenna	Per 2 digits of Length, Width 3109 = Length = 31 Width = 9	2 digits for cable length 10= Cable Length: 10cm	A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 5: 5 GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band T:LTE band U:UHF W: WCDMA band	B: MP T:During Test X: Pile Run	0:None 1:ø0.81 2:ø1.32 3:ø1.13 4:Low Lossø1.13 5:ø0.50 6:RG316 7:ø1.37 8:RG178 9: Low Lossø1.37 A:RG174 B:1.5C-2V	01~99 series number

■ Cable Assembly

RF	CBA	1613	10	I	M	3	B	7	01
Type code RF device	**Product code** CBA：Cable Assembly	**Dimension code** Per 2 digits of Length, Width 1613 = Length = 16.8 Width = 13.7	**Cable Length code** 2 digits for cable length 10= Cable Length: 10cm	**Connector Brand code** A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	**Type of Connector code** A: Reverse Female B: Reverse Male F: Female M: Male N: None	**Application code** 0: 0GHz 3: 3GHz 6: 6GHz	**Project status code** B: MP T:During Test X: Pile Run	**Wire Diameter code** 0:None 1:ø0.81 2:ø1.32 3:ø1.13 4:Low Lossø1.13 5:ø0.50 6:RG316 7:ø1.37 8:RG178 9: Low Lossø1.37 A:RG174 B:1.5C-2V	**Project code** 01~99 series number

■ Connector

RF	CON	0201	00	D	F	6	B	0	01
Type code RF device	**Product code** CON：Connector	**Dimension code** Per 2 digits of Length, Width 0201 = Length = 2.05 Width = 1.40	**Cable Length code** 2 digits for cable length 00= None Cable	**Connector Brand code** A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	**Type of Connector code** A: Reverse Female B: Reverse Male F: Female M: Male N: None	**Application code** 0: 0GHz 3: 3GHz 6: 6GHz	**Project status code** B: MP T:During Test X: Pile Run	**Wire Diameter code** 0:None 1:ø0.81 2:ø1.32 3:ø1.13 4:Low Lossø1.13 5:ø0.50 6:RG316 7:ø1.37 8:RG178 9: Low Lossø1.37 A:RG174 B:1.5C-2V	**Project code** 01~99 series number

■ NFC Antenna

RF	NFC	0201	00	N	N	N	B	0	01
Type code RF device	**Product code** NFC：Near Field Communication Antenna	**Dimension code** Per 2 digits of Length, Width 5339 = Length = 53.7 Width = 39.7	**Cable Length code** 2 digits for cable length 00= None Cable	**Connector Brand code** A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	**Type of Connector code** A: Reverse Female B: Reverse Male F: Female M: Male N: None	**Application code** N: NFC	**Project status code** B: MP T:During Test X: Pile Run	**Wire Diameter code** 0:None 1:ø0.81 2:ø1.32 3:ø1.13 4:Low Lossø1.13 5:ø0.50 6:RG316 7:ø1.37 8:RG178 9: Low Lossø1.37 A:RG174 B:1.5C-2V	**Project code** 01~99 series number

■ WPC Antenna

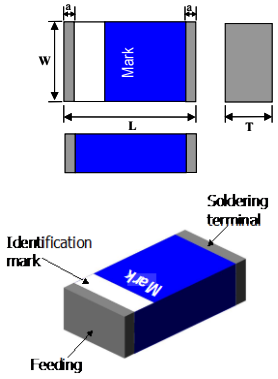
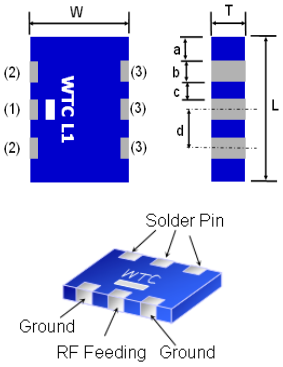
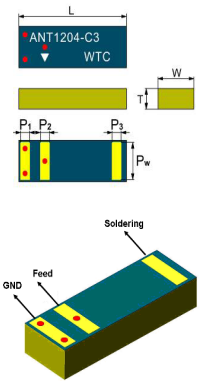
RF	WPC	5830	00	N	N	N	B	0	01
Type code RF device	**Product code** WPC：Wireless Power Charging Antenna	**Dimension code** Per 2 digits of Length, Width 5830 = Length = 58 Width = 30	**Cable Length code** 2 digits for cable length 00= None Cable	**Connector Brand code** A: N C:MCX D:IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX K:F M: MMCX S: SMA T: TNC U:MURATA N: None	**Type of Connector code** A: Reverse Female B: Reverse Male F: Female M: Male N: None	**Application code** N: NFC	**Project status code** B: MP T:During Test X: Pile Run	**Wire Diameter code** 0:None 1:ø0.81 2:ø1.32 3:ø1.13 4:Low Lossø1.13 5:ø0.50 6:RG316 7:ø1.37 8:RG178 9: Low Lossø1.37 A:RG174 B:1.5C-2V	**Project code** 01~99 series number

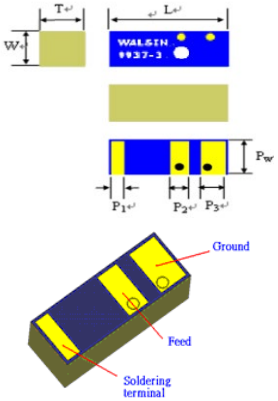
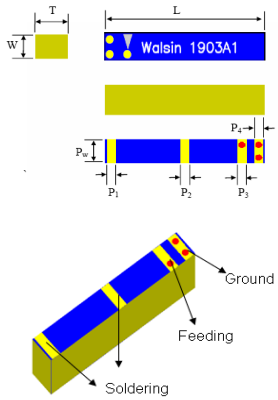
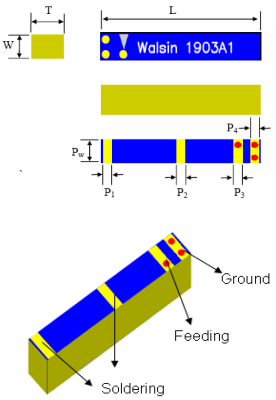
Remark:

1. Central Frequency should be defined after customers' application approval.

CHIP ANTENNA

■ STRUCTURE AND PIN ASSOCIATED

STRUCTURE A	STRUCTURE B	STRUCTURE C
		

STRUCTURE D	STRUCTURE E	STRUCTURE E
		

■ STRUCTURE AND DIMENSION

Unit: mm

Structure\Dimension	L	W	T	a	b	c	d	1	2	3
A	10 ± 0.20	3.2 ± 0.20	0.8 ± 0.10	0.8 ± 0.10						
	2.0 ± 0.20	1.25 ± 0.20	0.90 ± 0.10	0.25 ± 0.15	-	-	-	-	-	-
	3.20 ± 0.20	1.60 ± 0.20	0.60 ± 0.10	0.25 ± 0.20	-	-	-	-	-	-
			1.20 ± 0.10	0.25 ± 0.15	-	-	-	-	-	-
			1.30 ± 0.20	0.40 ± 0.20	-	-	-	-	-	-
	5.20 ± 0.20	2.00 ± 0.20	1.15 ± 0.10	0.40 ± 0.25	-	-	-	-	-	-
			1.15 ± 0.15	0.40 ± 0.25	-	-	-	-	-	-
	5.8 + 0.1 - 0.3	3.0 + 0.1 - 0.3	1.1 + 0.2 - 0.1	0.4 ± 0.25	-	-	-	-	-	-
	8.00 ± 0.20	1.05 ± 0.20	0.80 ± 0.10	0.30 ± 0.20	-	-	-	-	-	-
	9.10 ± 0.20	3.00 ± 0.20	2.00 ± 0.10	0.20 ± 0.20	-	-	-	-	-	-
	9.50 ± 0.20	2.10 ± 0.20	1.15 ± 0.10	0.50 ± 0.30	-	-	-	-	-	-
	1.60 ± 0.20	0.80 ± 0.20	0.50 ± 0.10	0.10 ± 0.05						
	2.00 ± 0.20	1.20 ± 0.20	0.50 ± 0.10	0.15 ± 0.05						
	12.00 ± 0.15	4.00 ± 0.15	1.60 ± 0.15	4.00 ± 0.15	0.80 ± 0.10	10.40 ± 0.15				
B	5.9 ± 0.3	5.1 ± 0.3	1.1 ± 0.1	0.45 ± 0.2	1.0 ± 0.2	1.0 ± 0.2	2.0 ± 0.2	1.0 ± 0.2	1.0 ± 0.2	1.0 ± 0.2
C	12.0±0.15	4.00±0.15	2.00±0.10	3.60±0.10	1.0±0.10	1.0±0.10	1.0±0.10	-	-	12.0±0.15

Structure\Dimension	L	W	T	PW	P1	P2	P3	P4	P5
D	9.90±0.15	3.70±0.15	3.80±0.20	3.48±0.10	1.4±0.10	1.9±0.10	2.4±0.15	-	-
E	19.0±0.15	3.00±0.15	3.80±0.20	3.00±0.10	1.0±0.10	1.0±0.10	1.0±0.10	1.0±0.10	-

■ ELECTRICAL SPECIFICATION

1.575GHz BAND WORKING FREQUENCY

Part Number	Frequency Range (GHz)	Azimuth Beamwidth (MHz)	Gain (dBi)	VSWR (max.)	Impedance (Ω)	Polarization	Size (mm)	Structure
RFECA3216060EET	1.575	Omni-directional	3	2.0	50	Linear	3.20x1.60x0.60	A

Bluetooth/WiFi BAND WORKING FREQUENCY

Part Number	Frequency Range (GHz)	Azimuth Beamwidth (MHz)	Gain (dBi)	VSWR (max.)	Impedance (Ω)	Polarization	Size (mm)	Structure
RFECA3216060L1T	2.4~2.5 5.25~5.85	Omni-directional	0.6/2	2.1	50	Linear	3.20x1.60x0.60	A
RFANT6050110L0T	2.4~2.5 4.9~5.9	Omni-directional	4	2.0	50	Linear	5.90x5.10x1.10	B
RFANT6050110L1T	2.4~2.5 4.9~5.9	Omni-directional	4	2.0	50	Linear	5.90x5.10x1.10	B
RFANT2012090A0T	2.4~2.5	Omni-directional	1.72	2.0	50	Linear	2.00x1.25x0.90	A
RFANT3216120A1T	2.4~2.5	Omni-directional	2	2.0	50	Linear	3.20x1.60x1.20	A
RFANT3216120A3T	2.4~2.5	Omni-directional	2	2.0	50	Linear	3.20x1.60x1.20	A
RFANT3216120A5T	2.4~2.5	Omni-directional	2	2.0	50	Linear	3.20x1.60x1.20	A
RFANT5220110A0T	2.4~2.5	Omni-directional	2	2.0	50	Linear	5.20x2.00x1.10	A
RFANT5220110A2T	2.4~2.5	Omni-directional	2	2.0	50	Linear	5.20x2.00x1.10	A
RFANT8010080A3T	2.4~2.5	Omni-directional	2	2.0	50	Linear	8.00x1.00x0.80	A
RFANT9520120A0T	2.4~2.5	Omni-directional	2	2.0	50	Linear	9.50x2.00x1.20	A
RFECA3216060A1T	2.4~2.5	Omni-directional	2	2.1	50	Linear	3.20x1.60x0.60	A
RFECA3216060K1T	4.9~5.85	Omni-directional	2.8	2.0	50	Linear	3.20x1.60x0.60	A
RFANT9030200A1T	2.4~2.4835	Omni-directional	2	2.1	50	Linear	9.00x 3.00x2.00	A
RGFRA1903041A1T	2.4~2.5	Omni-directional	2	2.0	50	Linear	19.0x3.00x3.80	E
RGFRA1903041A5T	2.4~2.5	Omni-directional	2	2.0	50	Linear	19.0x3.00x3.80	E
RGFRA9937380A3T	2.4~2.55	Omni-directional	2	2.0	50	Linear	9.90x3.70x3.80	D
RGFRA1204021A1T	2.4~2.5	Omni-directional	2	2.0	50	Linear	12.0x4.00x2.00	C
RFANT2012090A0T	2.4~2.5	Omni-directional	2	2.0	50	Linear	2.00x1.25x0.90	A
RFECA2012050A3T	2.4~2.5	Omni-directional	0.29	2.6	50	Linear	2.00x1.20x0.5	A

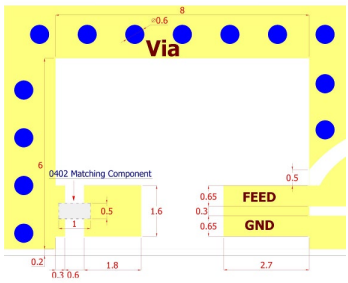
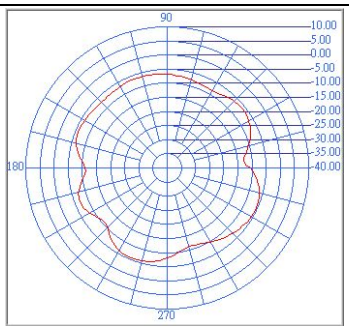
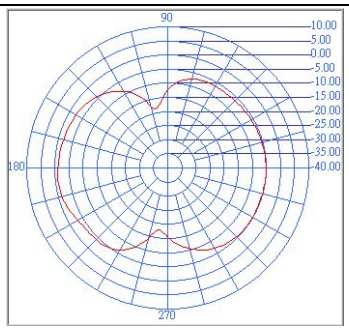
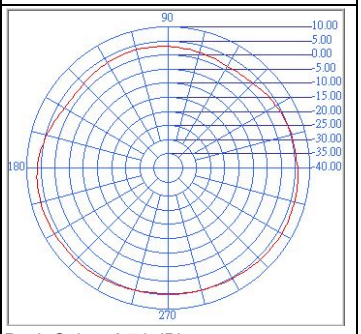
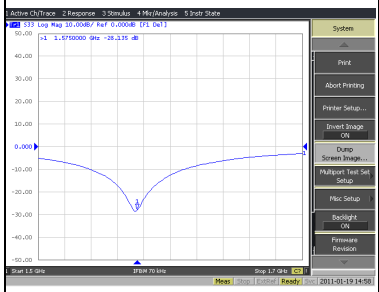
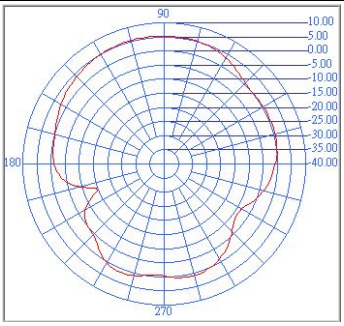
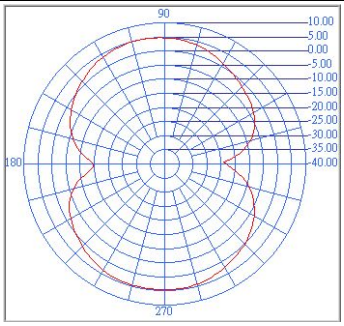
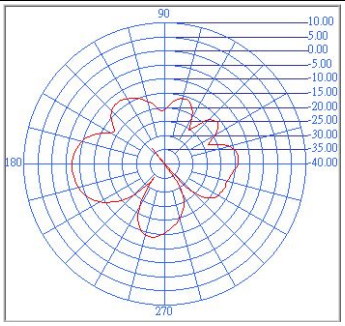
UHF BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Azimuth Beamwidth (MHz)	Gain (dBi)	VSWR (max.)	Impedance (Ω)	Polarization	Size (mm)	Structure
RGFRA1204011DCT	900~930	Omni-directional	1	2.0	50	Linear	12.00x4.00x1.60	A
RGFRA1204011DET	855~885	Omni-directional	1	2.0	50	Linear	12.00x4.00x1.60	A

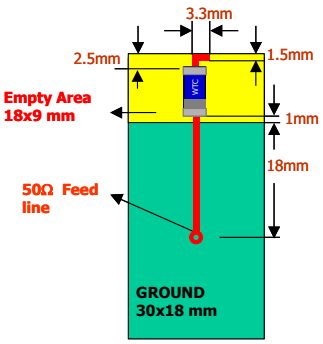
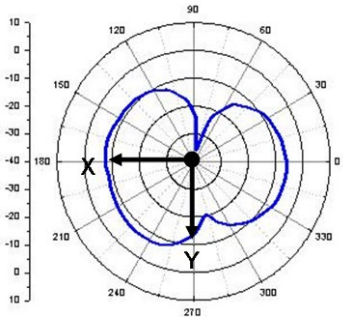
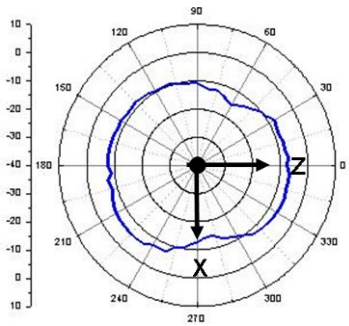
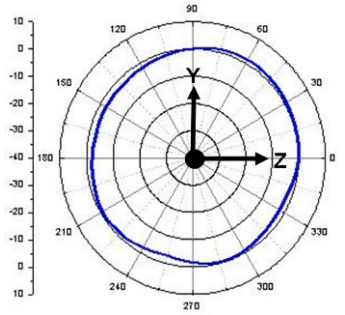
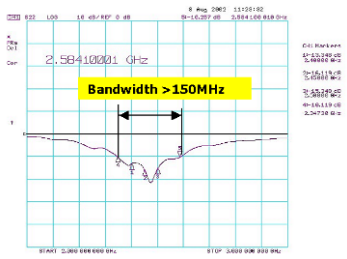
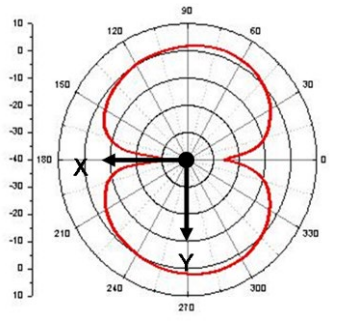
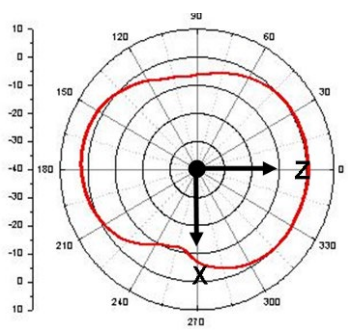
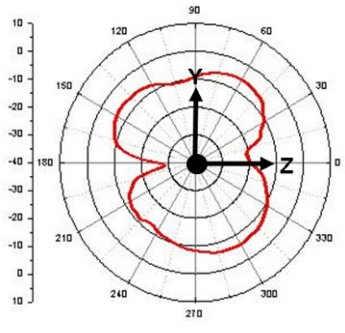
- **For more information, please contact with local sales representative**
- **All specifications are subject to change without notice**

■ TYPICAL ELECTRICAL CHARACTERISTICS

RFECA3216060EET

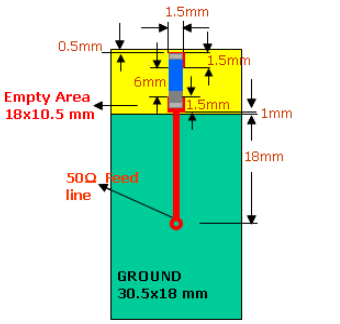
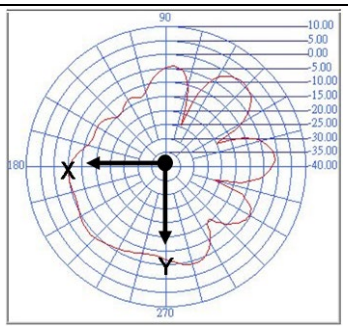
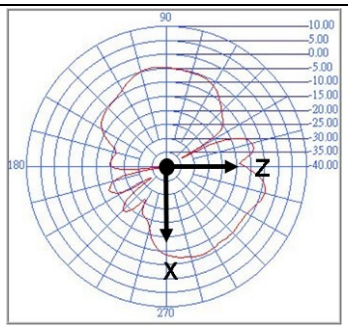
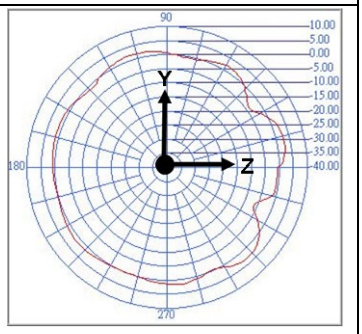
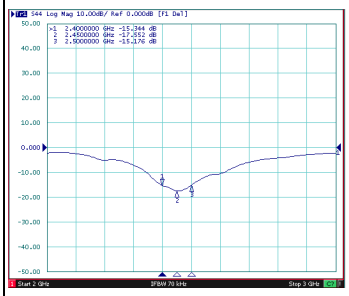
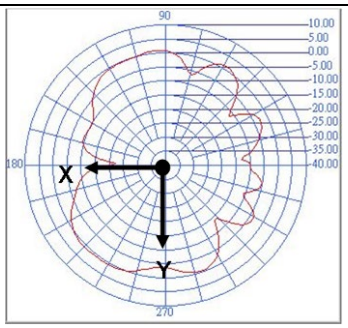
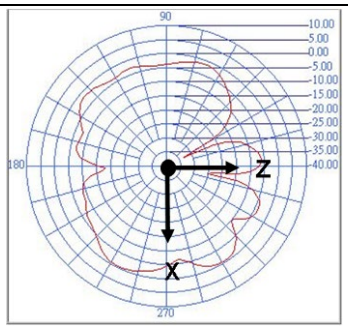
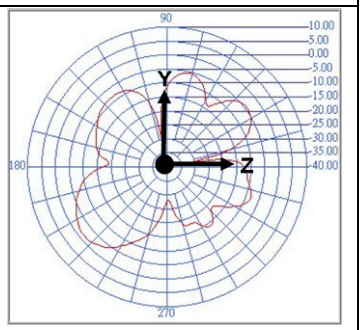
Land Pattern	X-Y Plane **Vertical**	X-Z Plane **Vertical**	Y-Z Plane **Vertical**
			
	Peak Gain= -5.51 dBi Average Gain= -7.48 dBi	Peak Gain= -0.85 dBi Average Gain= -5.22 dBi	Peak Gain = 6.74 dBi Average Gain = 4.81 dBi
Return Loss (S11)	**X-Y Plane Horizontal**	**X-Z Plane Horizontal**	**Y-Z Plane Horizontal**
			
	Peak Gain= 5.36 dBi Average Gain= 1.25 dBi	Peak Gain= 4.85 dBi Average Gain= 1.21 dBi	Peak Gain= -6.99 dBi Average Gain=-14.30 dBi

RFANT5220110A0T

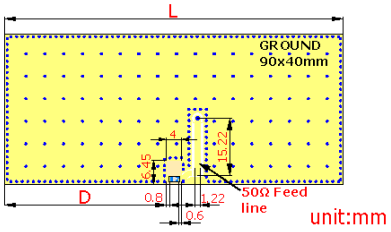
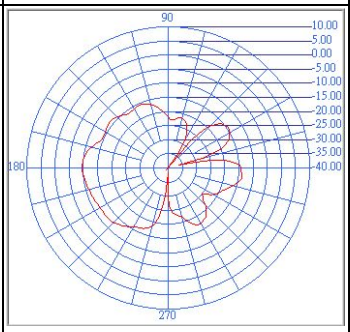
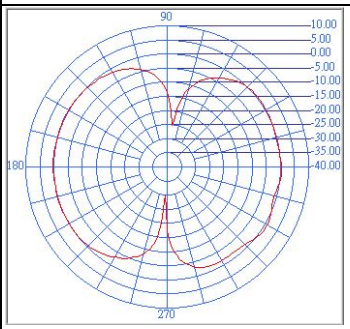
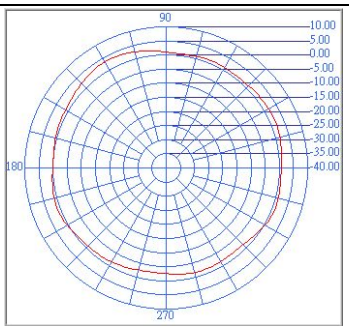
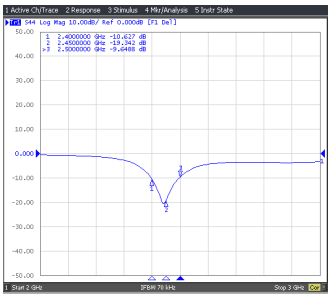
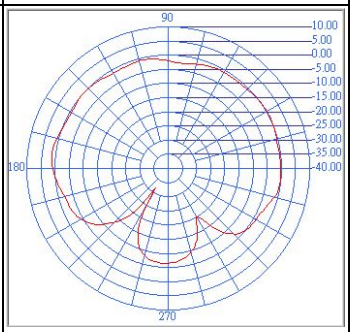
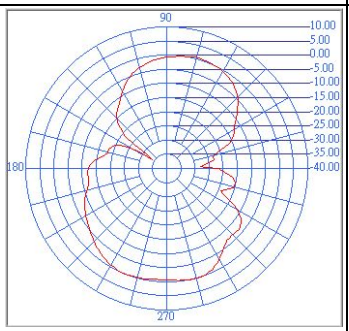
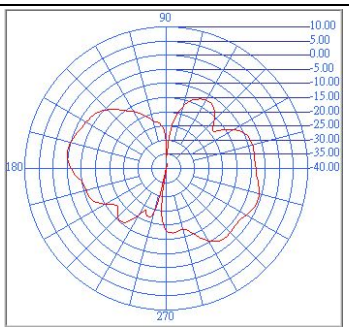
Test Board	X-Y Plane **Vertical**	X-Z Plane **Vertical**	Y-Z Plane **Vertical**
			
	Peak Gain= -5.97dBi Average Gain=-3.12 dBi	Peak Gain= -5.97dBi Average Gain=-3.24 dBi	Peak Gain= 1.69dBi Average Gain=-3.22 dBi
Return Loss (S11)	**X-Y Plane Horizontal**	**X-Z Plane Horizontal**	**Y-Z Plane Horizontal**
			
	Peak Gain= 2.59dBi Average Gain=-9.24 dBi	Peak Gain= 2.66dBi Average Gain=-8.61 dBi	Peak Gain= -5.42dBi Average Gain=-8.98 dBi

TYPICAL ELECTRICAL CHARACTERISTICS

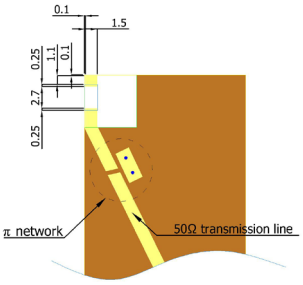
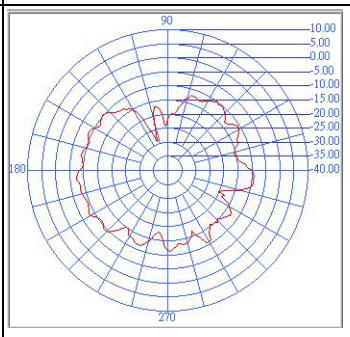
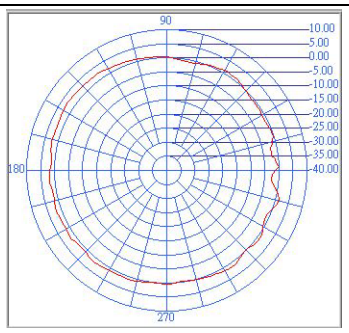
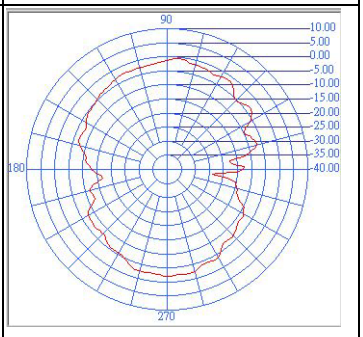
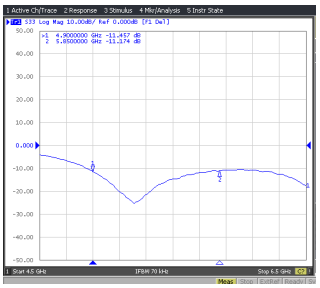
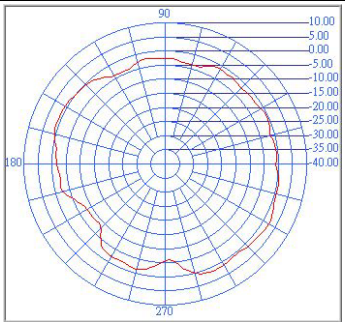
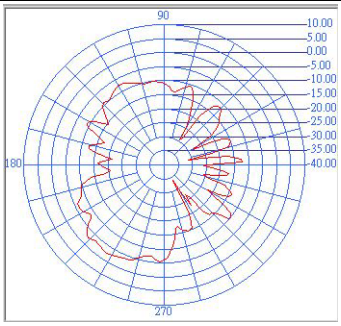
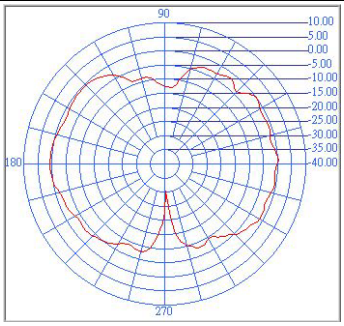
RFANT8010080A3T

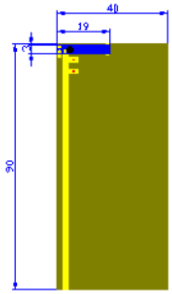
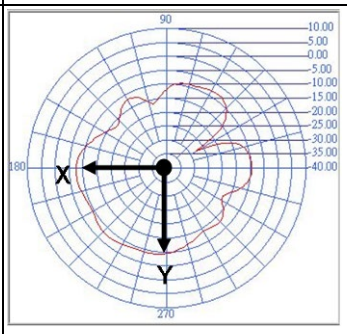
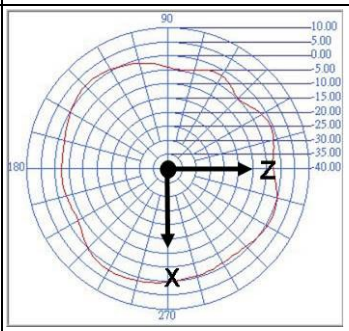
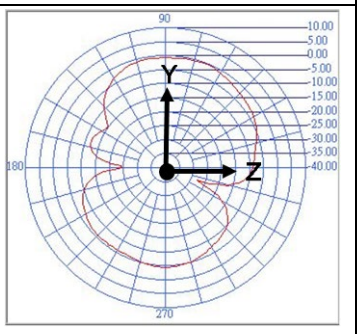
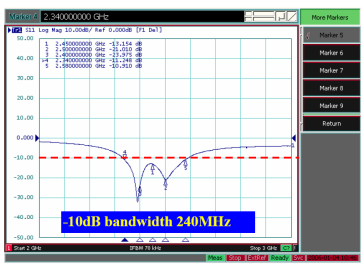
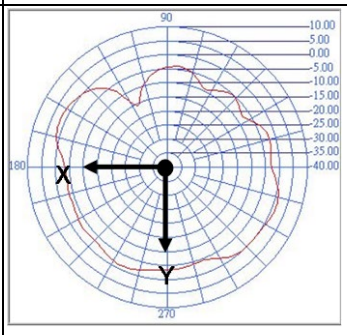
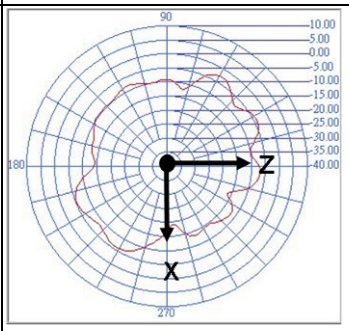
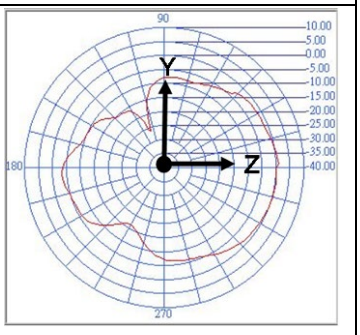
Test Board	X-Y Plane **Vertical**	X-Z Plane **Vertical**	Y-Z Plane **Vertical**
	 Peak Gain= 0.76 dBi Average Gain= -5.81dBi	 Peak Gain= -3.76 dBi Average Gain= -8.72dBi	 Peak Gain = 3.03 dBi Average Gain = 0.71 dBi
Return Loss (S11)	**X-Y Plane Horizontal**	**X-Z Plane Horizontal**	**Y-Z Plane Horizontal**
	 Peak Gain= 1.37 dBi Average Gain= -2.67 dBi	 Peak Gain= -0.25 dBi Average Gain= -4.24 dBi	 Peak Gain= -1.37 dBi Average Gain=-8.6 dBi

RFECA3216060A1T

Test Board	X-Y Plane **Vertical**	X-Z Plane **Vertical**	Y-Z Plane **Vertical**
	 Peak Gain = 3.37 dBi Average Gain = -0.65 dBi	 Peak Gain= 0.83 dBi Average Gain= -1.35 dBi	 Peak Gain= -9.59 dBi Average Gain= -15.40 dBi
Return Loss (S11)	**X-Y Plane Horizontal**	**X-Z Plane Horizontal**	**Y-Z Plane Horizontal**
	 Peak Gain= -4.62 dBi Average Gain=-10.42 dBi	 Peak Gain= 0.51 dBi Average Gain= -4.07 dBi	 Peak Gain= 1.39 dBi Average Gain= -2.07 dBi

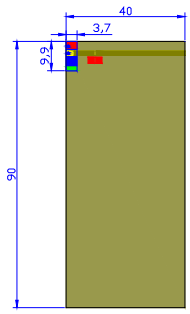
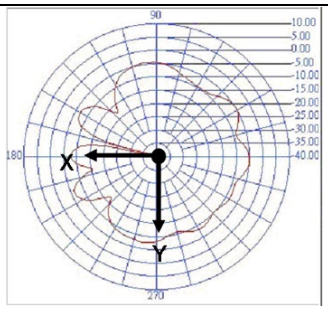
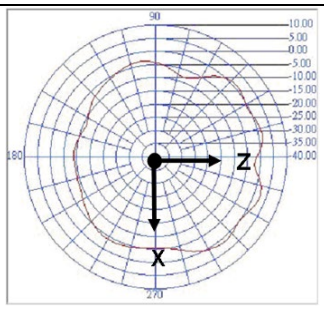
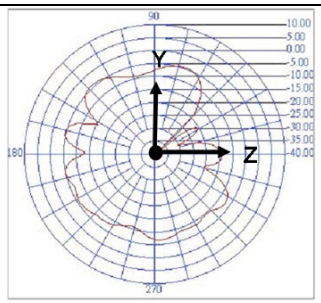
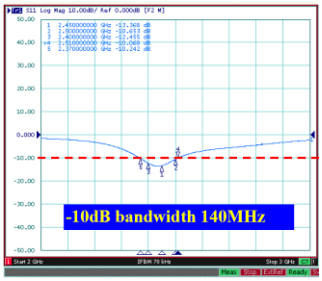
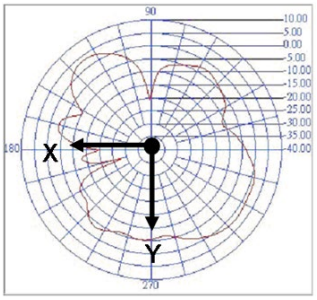
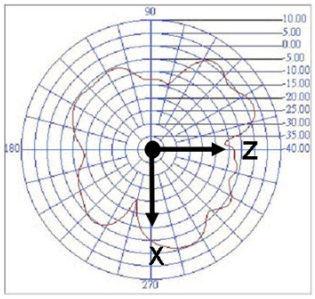
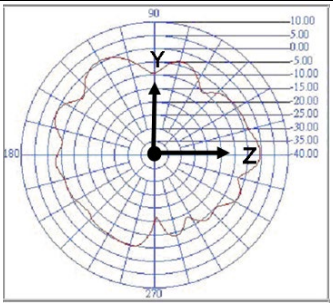
TYPICAL ELECTRICAL CHARACTERISTICS

RFECA3216060K1T			
Land Pattern	X-Y Plane **Vertical**	X-Z Plane **Vertical**	Y-Z Plane **Vertical**
	 Peak Gain= -7.42 dBi Average Gain= -11.78 dBi	 Peak Gain= 2.86 dBi Average Gain= 0.86 dBi	 Peak Gain= -0.55dBi Average Gain=-4.9 dBi
Return Loss (S11)	X-Y Plane **Horizontal**	X-Z Plane **Horizontal**	Y-Z Plane **Horizontal**
	 Peak Gain= 2.3 dBi Average Gain= -1.1 dBi	 Peak Gain=-2.49 dBi Average Gain= -9.61dBi	 Peak Gain = 0.73dBi Average Gain = -2.86 dBi

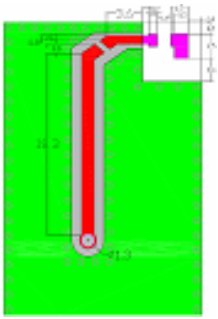
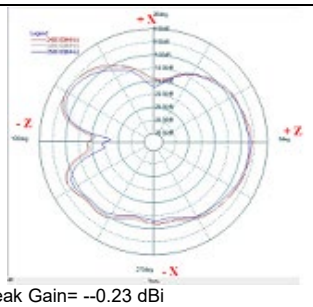
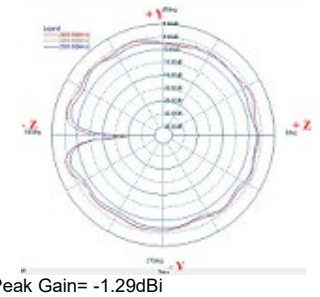
RGFAR1903041A1T			
Test Board	X-Y Plane **Vertical**	X-Z Plane **Vertical**	Y-Z Plane **Vertical**
	 **Peak Gain= -7.42 dBi** **Average Gain= -10.48 dBi**	 **Peak Gain= 1.95 dBi** **Average Gain= -0.81 dBi**	 **Peak Gain= -0.26dBi** **Average Gain=-5 dBi**
Return Loss (S11)	X-Y Plane **Horizontal**	X-Z Plane **Horizontal**	Y-Z Plane **Horizontal**
	 **Peak Gain= 2.0 dBi** **Average Gain= -2.31 dBi**	 **Peak Gain= -2.65 dBi** **Average Gain= -8.4dBi**	 **Peak Gain = 1.11dBi** **Average Gain = -4.37 dBi**

TYPICAL ELECTRICAL CHARACTERISTICS

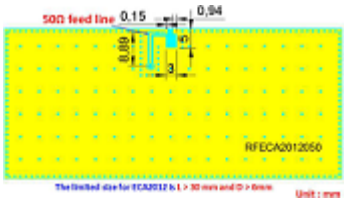
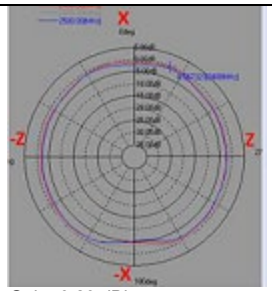
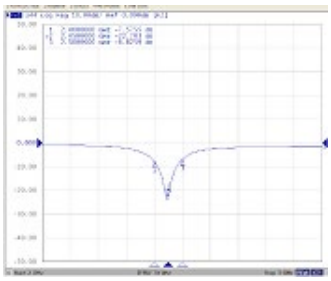
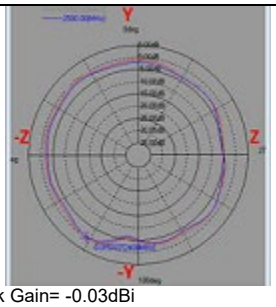
RGFAR9937380A3T

Test Board	X-Y Plane **Vertical**	X-Z Plane **Vertical**	Y-Z Plane **Vertical**
	 Peak Gain= -4.48 dBi Average Gain= -8.02 dBi	 Peak Gain= 2.49 dBi Average Gain= -2.47 dBi	 Peak Gain= -4.05dBi Average Gain=-8.03 dBi
Return Loss (S11)	**X-Y Plane Horizontal**	**X-Z Plane Horizontal**	**Y-Z Plane Horizontal**
	 Peak Gain= 3.19 dBi Average Gain= -2.65 dBi	 Peak Gain= 3.05 dBi Average Gain= -4.10dBi	 Peak Gain = 0.95dBi Average Gain = -4.26 dBi

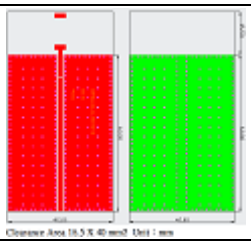
RFANT2012090A0T

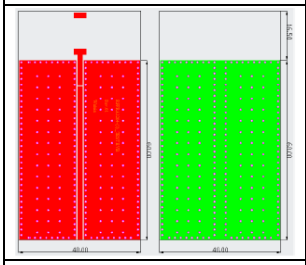
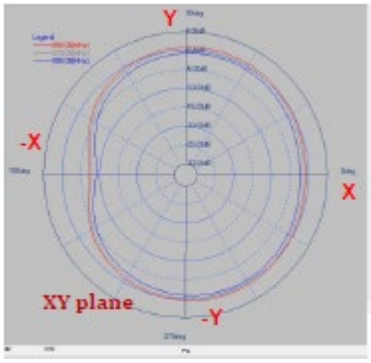
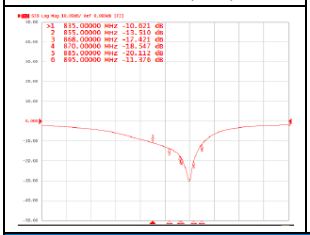
Test Board	X-Y Plane
	 Peak Gain= -0.19 dBi Average Gain= -3.72 dBi
	X-Z Plane
	 Peak Gain= --0.23 dBi Average Gain= -4.23 dBi
Return Loss (S11)	**Y-Z Plane**
	 Peak Gain= -1.29dBi Average Gain=-1.46 dBi

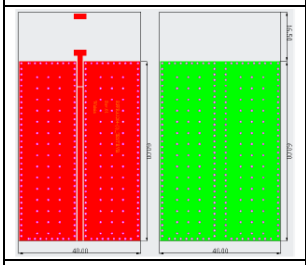
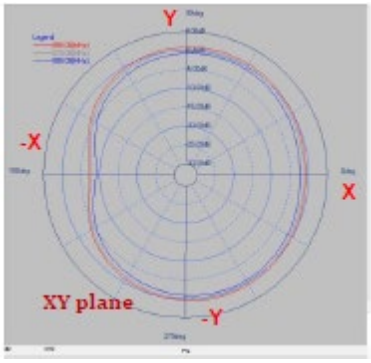
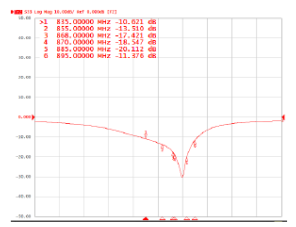
RFECA2012050A3T

Test Board	X-Y Plane
	 Peak Gain= --1.07 dBi Average Gain= -3.81 dBi
	X-Z Plane
	 Peak Gain=0.29 dBi Average Gain= 0.89 dBi
Return Loss (S11)	**Y-Z Plane**
	 Peak Gain= -0.03dBi Average Gain=-4.36 dBi

TYPICAL ELECTRICAL CHARACTERISTICS

RGFRA1204011DCT			
Test Board	X-Y Plane	X-Z Plane	Y-Z Plane
			
Return Loss (S11)			
	Peak Gain= -0.82 dBi Average Gain= -1.11 dBi	Peak Gain= 0.56 dBi Average Gain= -3.41 dBi	Peak Gain= 0.94dBi Average Gain=-1.48 dBi

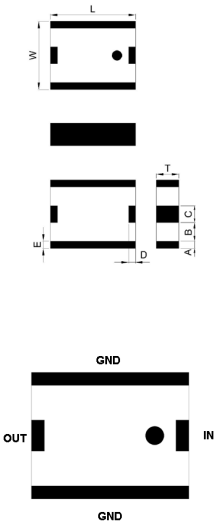
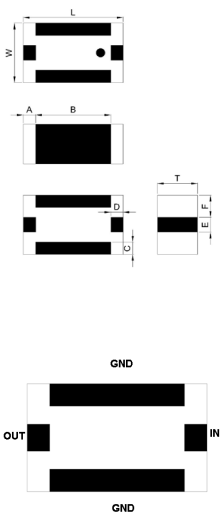
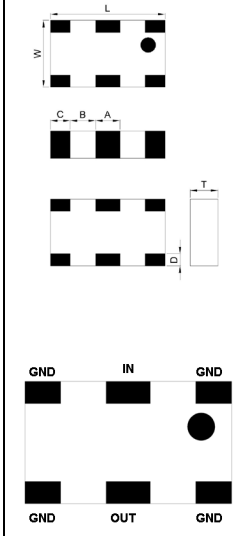
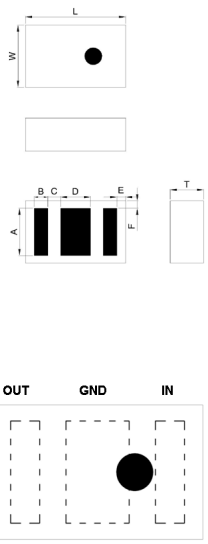
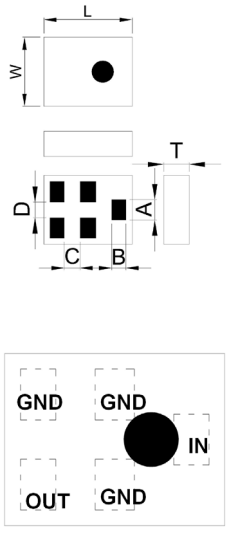
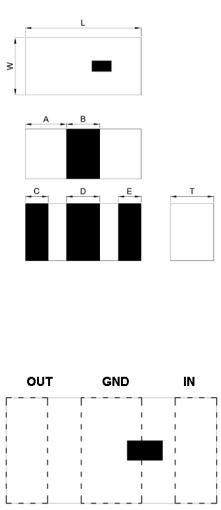
RGFRA1204011DET			
Test Board	X-Y Plane	X-Z Plane	Y-Z Plane
			
Return Loss (S11)			
	Peak Gain= -0.85 dBi Average Gain= -0.74 dBi	Peak Gain= -1.06 dBi Average Gain= -3.01 dBi	Peak Gain= -0.82dBi Average Gain=-1.29 dBi

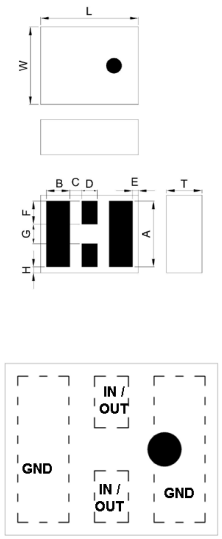
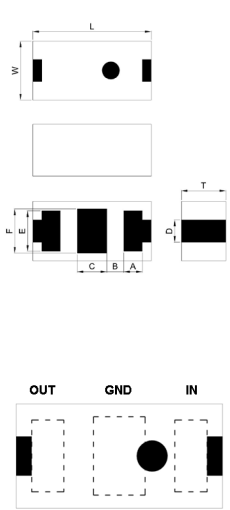
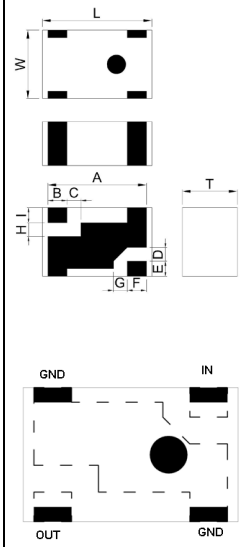
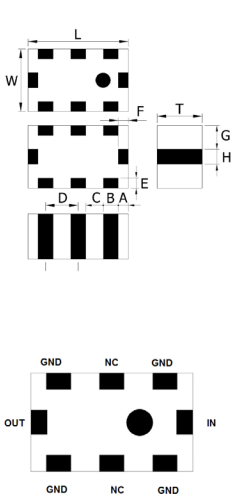
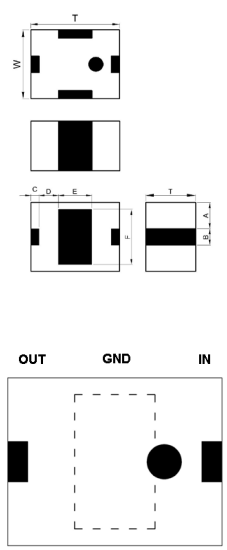
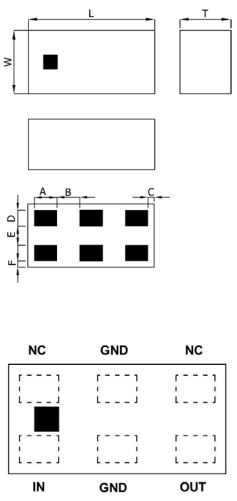
RGFRA1204011DET			
Test Board	X-Y Plane	X-Z Plane	Y-Z Plane
			
Return Loss (S11)			
	Peak Gain= -0.85 dBi Average Gain= -0.74 dBi	Peak Gain= -1.06 dBi Average Gain= -3.01 dBi	Peak Gain= -0.82dBi Average Gain=-1.29 dBi

- **For more information, please contact with local sales representative**
- **All specifications are subject to change without notice**

HIGH FREQUENCY MULTILAYER BAND PASS FILTER

■ STRUCTURE AND PIN ASSOCIATED

STRUCTURE A	STRUCTURE B	STRUCTURE C	STRUCTURE D	STRUCTURE E	STRUCTURE F
					

STRUCTURE G	STRUCTURE H	STRUCTURE I	STRUCTURE J	STRUCTURE K	STRUCTURE L
					

■ STRUCTURE AND DIMENSION

Unit: mm

Structure\ Dimension	L	W	T	A	B	C	D	E	F	G	H	I
A	2.50±0.20	2.00±0.20	0.70±0.10	0.20±0.20	0.55±0.20	0.50±0.20	0.25±0.20	0.20±0.20	-	-	-	-
			0.90±0.10	0.20±0.20	0.55±0.20	0.50±0.20	0.20±0.20	0.20±0.20	-	-	-	-
			1.00±0.10	0.20±0.20	0.55±0.20	0.50±0.20	0.25±0.20	0.20±0.20	-	-	-	-
			1.05±0.10	0.25±0.20	0.50±0.20	0.50±0.20	0.25±0.20	0.25±0.20	-	-	-	-
			1.20±0.10	0.25±0.20	0.50±0.20	0.50±0.20	0.25±0.20	0.25±0.20	-	-	-	-
		2.05±0.20	0.70±0.20	0.25±0.20	0.50±0.20	0.50±0.20	0.25±0.20	0.25±0.20	-	-	-	-
	3.20±0.20	2.50±0.10	1.50±0.10	0.20±0.20	0.75±0.20	0.60±0.20	0.20±0.15	0.40±0.20	-	-	-	-
B	1.00±0.10	0.50±0.10	0.40±0.10	0.35±0.10	0.30±0.10	0.15±0.10	0.15±0.10	0.30±0.10	-	-	-	-
	1.60±0.15	0.80±0.15	0.50±0.10	0.45±0.15	0.70±0.15	0.20±0.15	0.20±0.15	0.30±0.15	0.25±0.15	-	-	-
			0.60±0.10	0.45±0.15	0.70±0.15	0.20±0.15	0.20±0.15	0.30±0.15	0.25±0.15	-	-	-
			0.70±0.10	0.40±0.15	0.80±0.15	0.20±0.10	0.20±0.10	0.30±0.15	0.25±0.15	-	-	-
			0.70±0.10	0.45±0.15	0.70±0.15	0.20±0.10	0.20±0.10	0.30±0.15	0.25±0.15	-	-	-
	2.00±.15	1.20±015	0.50±0.10	0.40±0.15	0.80±0.15	0.20±0.10	0.20±0.10	0.30±0.15	0.45±0.15	-	-	-
			0.90±0.10	0.20±0.15	1.60±0.15	0.20±0.15	0.20±0.15	0.40±0.15	0.40±0.15	-	-	-
				0.20±0.15	1.60±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.45±0.15	-	-	-
				0.45±0.15	1.10±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.45±0.15	-	-	-
				0.50±0.15	1.00±0.15	0.20±0.15	0.20±0.15	0.30±0.15	0.45±0.15	-	-	-
		1.25±0.15	0.60±0.10	0.50±0.15	1.00±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
			0.80±0.10	0.50±0.15	1.00±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
			0.90±0.10	0.50±0.15	1.00±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
				0.20±0.15	1.60±0.15	0.20±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
			0.95±0.10	0.35±0.15	1.30±0.15	0.20±0.15	0.20±0.15	0.30±0.15	0.475±0.15	-	-	-
				0.20±0.15	1.60±0.15	0.20±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
				0.35±0.15	1.30±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
				0.50±0.15	1.00±0.15	0.25±0.15	0.25±0.15	0.30±0.15	0.475±0.15	-	-	-
C	2.00±.15	1.20±0.20	0.55±0.10	0.40±0.20	0.40±0.20	0.40±0.20	0.20±0.10	-	-	-	-	-
			0.60±0.10	0.40±0.20	0.40±0.20	0.40±0.20	0.20±0.10	-	-	-	-	-
			0.80±0.10	0.40±0.20	0.40±0.20	0.40±0.20	0.20±0.10	-	-	-	-	-
D	1.60±0.15	0.80±0.15	0.60±0.10	0.55±0.10	0.25±0.10	0.23±0.10	0.40±0.10	0.12±0.10	0.125±0.10	-	-	-
	2.00±.15	1.25±0.10	0.45±0.10	0.95±0.10	0.275±0.20	0.25±0.10	0.60±0.10	0.175±0.10	0.15±0.10	-	-	-
			0.70 max	0.95±0.10	0.275±0.10	0.25±0.10	0.60±0.10	0.175±0.10	0.15±0.10	-	-	-
			0.80±0.10	0.95±0.10	0.275±0.10	0.25±0.10	0.60±0.10	0.175±0.10	0.15±0.10	-	-	-
E	1.10±0.10	0.90±0.10	0.60±0.10	0.25±0.10	0.18±0.10	0.205±0.10	0.25±0.10	-	-	-	-	-
	1.40±0.15	1.10±0.10	0.60±0.10	0.325±0.10	0.25±0.10	0.25±0.10	0.25±0.10	-	-	-	-	-
	1.40±0.15	1.10±0.15	0.70±0.10	0.325±0.10	0.25±0.10	0.25±0.10	0.25±0.10	-	-	-	-	-
	2.00±0.20	1.25±0.20	1.00 max.	0.325±0.10	0.25±0.10	0.25±0.10	0.25±0.10	-	-	-	-	-
F	1.60±0.15	0.80±0.15	0.40±0.10	0.55±0.15	0.50±0.15	0.35±0.15	0.50±0.15	0.20±0.15	-	-	-	-
			0.60±0.10	0.55±0.15	0.50±0.15	0.35±0.15	0.50±0.15	0.20±0.15	-	-	-	-
G	1.60±0.10	0.80±0.10	0.70 max.	0.55±0.10	0.25±0.10	0.23±0.10	0.40±0.10	0.12±0.10	0.195±0.10	0.21±0.10	0.125±0.10	-
	2.00±0.15	1.25±0.10	0.80±0.10	0.95±0.10	0.40±0.10	0.30±0.10	0.30±0.10	0.15±0.10	0.30±0.10	0.35±0.10	0.15±0.10	-
			0.90±0.10	0.95±0.10	0.40±0.10	0.30±0.10	0.30±0.10	0.15±0.10	0.30±0.10	0.35±0.10	0.15±0.10	-
	2.50±0.20	2.00±0.20	0.90±0.10	1.70±0.20	0.60±0.20	0.30±0.20	0.40±0.20	0.15±0.10	0.60±0.10	0.50±0.10	0.15±0.10	-
H	1.60±0.15	0.80±0.10	0.60 max.	0.25±0.10	0.23±0.05	0.40±0.10	0.30±0.10	0.55±0.10	0.60±0.10	-	-	-
			0.65 max.	0.25±0.10	0.23±0.05	0.40±0.10	0.30±0.10	0.55±0.10	0.60±0.10	-	-	-
I	2.00±0.15	1.25±0.10	1.00 max.	1.80±0.10	0.35±0.10	0.25±0.10	0.25±0.10	0.275±0.10	0.35±0.10	0.25±0.10	0.25±0.10	0.275±0.10
K	2.00±0.15	1.25±0.15	1.05±0.15	0.475±0.15	0.30±0.15	0.20±0.15	0.50±0.15	0.60±0.15	0.95±0.15	-	-	-
	3.20±0.20	2.50±0.20	1.80±0.20	0.95±0.20	0.60±0.20	0.30±0.15	0.70±0.15	1.20±0.15	2.00±0.15	-	-	-
L	1.00±0.05	0.05±0.05	0.32 max.	0.18±0.05	0.18±0.05	0.05±0.05	0.125±0.05	0.15±0.05	0.05±0.05	-	-	-

■ ELECTRICAL SPECIFICATION

2.4GHz BAND WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RBBPF1005040A1T	2.4~2.5	2.5	25(824~960MHz) 20(1710~1910MHz) 20(4800~5000MHz) 15(7200~7500MHz)	2.0	50	1.00x0.50x0.40	B
RFBPF1005040A3T	2.4~2.5	1.5max.(25℃) 1.7max.(-40~+85℃)	13(824~915MHz) 5(1545~1605MHz) 34(4800~5000MHz) 27(7200~7500MHz)	2.1	50	1.00x0.50x0.40	B
RFBPF1109060A0T	2.4~2.5	1.8	35(824~960MHz) 38(1545~1605MHz) 20(1710~1990MHz) 8(2110~2170MHz) 35(3600MHz) 35(4800~5000MHz) 35(7200~7500MHz)	2.0	50	1.10x 0.90x0.60	E
RFBPF1109060A28Q1C	2.4~2.5	1.0max.(25℃) 1.3max.(-40~+85℃)	20(50~960MHz) 30(1560~1606MHz) 15(1710~1990MHz) 10(3600MHz) 35(4800~5000MHz) 25(7200~7500MHz)	2.0	50	1.10x 0.90x0.60	E
RFBPF1411060A1T	2.4~2.5	1.8max.(25℃) 2.1max.(-40~+85℃)	40(824~960MHz) 40(1545~1605MHz) 20(1710~1990MHz) 8(2110~2170MHz) 35(3600MHz) 35(4800~5000MHz) 35(7200~7500MHz)	2.0	50	1.40x1.10x0.60	E
RFBPF1411060A2T	2.4~2.5	1.5	30(500~960MHz) 25(1500~1650MHz) 19(3200~3300MHz) 40(4800~5000MHz) 30(7200~7500MHz)	2.0	50	1.40x1.10x0.60	E
RBBPF1411060A3T	2.4~2.5	1.1	20(50~960MHz) 10(1710~1990MHz) 9(3600MHz) 22(4800~7200MHz)	2.0	50	1.40x1.10x0.60	E
RFBPF1608060AA7M1U	2.4~2.5	0.95max.(25℃) 1.25max.(-40~+85℃)	20(500~960MHz) 23(3200MHz) 30(4800~5000MHz) 32(7200~7500MHz)	2.0	50	1.60x0.80x0.60	H
RFBPF1608060ADT	2.4~2.5	1.8max.(25℃) 2.1max.(-40~+85℃)	25(800~1000MHz) 22.5(1200~1300MHz) 5.5(2000MHz) 10.5(3000MHz) 23.5(3600~3800MHz) 35(4800~5000MHz) 35(7200~7500MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1608060AET	2.4~2.5	1.7max.(25℃) 2.0max.(-40~+85℃)	25(880MHz) 20(3200MHz) 35(4800~5000MHz) 25(7200~7500MHz)	2.0	50	1.60x0.80x0.60	F
RFBPF1608060A1T	2.4~2.5	2.8	25(695~800MHz) 20(1910MHz) 35(3200MHz) 20(4800~5000MHz) 20(7200~7500MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1608060A7T	2.4~2.5	3.0	25(695~800MHz) 20(1910MHz) 35(3200MHz) 20(4800~5000MHz) 20(7200~7500MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1606A10T	2.4~2.5	0.95max.(25℃) 1.1max.(-40~+85℃)	20(500~960MHz) 20(3600MHz) 30(4800~5000MHz) 40(7200~7500MHz)	2.0	50	1.60x0.80x0.60	H
RFBPF1606A11T	2.4~2.5	1.55max.(25℃) 1.75max.(-40~+85℃)	35(800~1000MHz) 20(3200MHz) 35(4800~5000MHz) 25(7200~7500MHz)	2.0	50	1.60x0.80x0.60	F

■ ELECTRICAL SPECIFICATION

2.4GHz BAND WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1606A14T	2.4~2.5	1.5max.(25℃) 1.7max.(-40~+85℃)	25(880~915MHz) 25(1710~1785 MHz) 25(1850~1910 MHz) 20(4800~5000 MHz) 15(7200~7500 MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1606A15T	2.4~2.5	2.5max.(25℃) 2.8max.(-40~+85℃)	30(960MHz) 25(1910 MHz) 20(1990 MHz) 30(4800 MHz) 25(7200 MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1606A17T	2.4~2.5	1.8max.(25℃) 2.1max.(-40~+85℃)	27(800~900MHz) 25(4800~5000MHz) 30(7200~7500MHz)	2.0	50	1.60x0.80x0.70	B
RFBPF1606A19T	2.4~2.5	2.0max.(25℃) 2.2max.(-40~+85℃)	30(960MHz) 25(1910 MHz) 20(1990 MHz) 25(4800 MHz) 15(7200 MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1608060AM6T25	2.4~2.5	1.55max.(25℃) 1.75max.(-40~+85℃)	35(800~1000MHz) 20(3200MHz) 35(4800~5000MHz) 25(7200~7500MHz)	2.0	50	1.60x0.80x0.60	F
RFBPF1608060AC8T37	2.4~2.5	1.80max.(25℃) 2.1max.(-40~+85℃)	27(804~828MHz) 21(1608~1656MHz) 23(3216~3312MHz) 38(4020~4140MHz) 42(4824~4968MHz) 34(5628~5796MHz) 34(6432~6624MHz) 34(7200~7500MHz) 14(9600~10000MHz) 10(12000~12500MHz) 12(14400~14900MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF2012090AS1T35	2.4~2.5	0.9max.(25℃) 1.1max.(-40~+85℃)	28(824~960MHz) 30(1570~1580MHz) 15(1710~1910MHz) 9.5(1910~1990MHz) 25(4800~5000MHz) 25(7200~7500MHz)	2.0	50	2.00x1.25x0.90	G
RFBPF2012060AAT	2.4~2.5	1.5max.(25℃) 1.8max.(-40~+85℃)	30(880~960MHz) 25(1710~1910MHz) 25(4800~5000MHz) 30(7200~7500MHz)	2.0	50	2.00x1.20x0.60	C
RFBPF2012040ABT	2.4~2.5	2.5	30(824~849MHz) 30(880~915MHz) 30(1545~1605MHz) 30(1565~1585MHz) 35(1710~1785MHz) 40(1850~1910MHz) 32(1920~1980MHz) 7(3168~4752MHz) 11(3300~3800MHz) 35(4800~4967MHz) 26(5150~6000MHz) 23(7200~7450MHz)	2.0	50	2.00x1.20x0.40	D
RFBPF2012050ACT	2.4~2.5	2.5	35(824~960MHz) 38(1710~1910MHz) 25(4880~5000MHz) 20(7200~7500MHz)	2.0	50	2.00x1.20x0.55	C
RFBPF2012080ADT	2.4~2.5	1.5max.(25℃) 1.7max.(-40~+85℃)	30(860~960MHz) 30(1545~1605MHz) 30(1710~1990MHz) 30(2170MHz) 30(4800~5000MHz)	2.0	50	2.00x1.25x0.80	D
RFBPF2012040AHT	2.4~2.5	2.5	25(746~764MHz) 30(824~849MHz) 26(869~960MHz) 28(1570~1580MHz) 28(1710~1785MHz) 30(1850~1910MHz) 30(1930~1990MHz) 30(2110~2170MHz) 15(3300~3800MHz) 35(4800~5000MHz) 20(7200~7450.5MHz)	2.0	50	2.00x1.25x0.45	D

2.4GHz BAND WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RBBPF2012050AHT	2.4~2.5	2.5max.(typ.2.2)	25(746~764MHz) 30(824~849MHz) 26(869~960MHz) 28(1570~1580MHz) 28(1710~1785MHz) 30(1850~1910MHz) 30(1930~1990MHz) 25(2110~2170MHz) 15(3300~3800MHz) 35(4800~5000MHz)	2.0	50	2.00x1.25x0.45	D
RFBPF2012090AMT	2.4~2.5	2.6	40(880~960MHz) 38(1710~1990MHz) 16(2170MHz) 30(4800~5000MHz) 30(7200~7500MHz)	2.0	50	2.00x1.20x0.90	B
RFBPF2012100ANT	2.4~2.5	2.3max.(25℃) 2.6max.(-40~+85℃)	40(699~960MHz) 40(1428~1448MHz) 40(1476~1607MHz) 40(1710~1785MHz) 33(1805~1880MHz) 30(1880~1915MHz) 30(1920~1990MHz) 22(2110~2170MHz) 25(4800~5000MHz) 35(7200~7500MHz	2.0	50	2.00x1.20x1.00	I
RFBPF2012090AQT	2.4~2.5	1.2	20(1600MHz) 25(3200MHz) 20(4800~5000MHz)	2.0	50	2.00x1.20x0.90	B
RFBPF2012100AVT	2.4~2.5	1.5max.(25℃) 1.7max.(-40~+85℃)	40(699~960MHz) 40(1428~1448MHz) 40(1476~1607MHz) 40(1710~1785MHz) 33(1805~1880MHz) 30(1880~1915MHz) 30(1920~1990MHz) 25(4800~5000MHz) 30(7200~7500MHz	2.0	50	2.00x1.20x1.00	I
RFBPF2012100A6T	2.4~2.5	1.0max.(25℃) 1.2max.(-40~+85℃)	21(902~928MHz) 26(4800~5000MHz) 34(7200~7500MHz) 29(9600~10000MHz)	2.0	50	2.00x1.20x1.00	L
RFBPF2012080A7T	2.4~2.5	2.8 (typ.2.5)	40(DC~1600MHz) 35(1710MHz) 25(1900MHz) 12(2100MHz) 8(2170MHz) 30(3100MHz) 40(4800~5000MHz) 20(7200~7500MHz)	2.0	50	2.00x1.20x0.80	B
RFBPF2012060A9T	2.4~2.5	2.8	30(960MHz) 30(1600MHz) 20(1990MHz) 35(3200MHz) 40(4800MHz) 25(7200MHz)	2.0	50	2.00x1.20x0.60	B
RBBPF2010A108Q1C	2.4~2.5	1.3max.(25℃) 1.5max.(-40~+85℃)	38(50~960MHz) 17(1710~1910MHz) 5(3200MHz) 30(4800~5000MHz) 25(7200~7500MHz)	2.0	50	2.00x1.20x0.90	E
RFBPF2009A12T	2.4~2.5	1.0max.(25℃) 1.2max.(-40~+85℃)	28(824~960MHz) 28(1570~1580MHz) 23(1710~1910MHz) 17 (1920~1990MHz) 4(2100~2170MHz) 25(4800~5000MHz) 25(7200~7500MHz)	2.0	50	2.00x1.25x0.90	G
RBBPF2010A16T	2.4~2.5	1.3max.(25℃) 1.5max.(-40~+85℃)	38(50~960MHz) 17(1710~1990MHz) 20(3200MHz) 30(4800~5000MHz) 25(7200~7500MHz)	2.0	50	2.00x1.25x1.00	E

2.4GHz BAND WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF2009A25T	2.4~2.5	1.7max.(25℃) 1.9max.(-40~+85℃)	30(900MHz) 20(1850MHz) 30(4800MHz)	2.0	50	2.00x1.20x0.90	B
RFBPF2009A26T	2.4~2.5	1.4max.(25℃) 1.6max.(-40~+85℃)	30(824~960MHz) 30(1710~1910MHz) 20(1920~1990MHz) 6(2110~2170MHz) 20(4800~5000MHz)	2.0	50	2.00x1.20x0.90	B
RFBPF2010A368Q1C	2.4~2.5	1.1max.(25℃) 1.3max.(-40~+85℃)	30(500~960MHz) 26(1500~1650MHz) 22(3200~3300MHz) 45(4800~5000MHz) 26(7200~7500MHz)	2.0	50	2.00x1.20x0.90	E
RFBPF2008A38T	2.4~2.5	1.8max.(25℃) 2.0max.(-40~+85℃)	30(860~960MHz) 30(1545~1605MHz) 35(1710~1990MHz) 30(2170MHz) 30(4800~5000MHz)	2.0	50	2.00x1.20x0.80	D
RFBPF2008A39T	2.4~2.5	1.8max.(25℃) 2.0max.(-40~+85℃)	35(824~960MHz) 28(1540~1605MHz) 30(1710~1990MHz) 30(2170MHz) 6(3200MHz) 30(4800~4967MHz) 20(5150~6000MHz) 18(7200~7450MHz)	2.0	50	2.00x1.25x0.80	D
RFBPF2008A40T	2.4~2.5	1.8max.(25℃) 2.0max.(-40~+85℃)	30(824~915MHz) 30(1545~1605MHz) 35(1710~1990MHz) 30(2170MHz) 30(4800~4967MHz) 25(5150~6000MHz) 20(7200~7450.5MHz)	2.0	50	2.00x1.25x0.80	D
RFBPF2004A51T	2.4~2.5	2.5max.(25℃) 2.8max.(-40~+85℃)	30(824~915MHz) 32(1920~1980MHz) 16(2110~2170MHz) 35(1800~4967MHz)	2.0	50	2.00x1.25x0.80	D
RFBPF2009A55T	2.4~2.5	1.4max.(25℃) 1.6max.(-40~+85℃)	30(824~915MHz) 30(1710~1910MHz)	2.0	50	2.00x1.25x0.95	B
RFBPF2520070AMT	2.4~2.5	2.0max.(25℃) 2.2max.(-40~+85℃)	45(824~960MHz) 45(1570~1580MHz) 45(1710~1785MHz) 40(1805~1850MHz) 35(1850~1910MHz) 35(1920~1990MHz) 25(2110~2170MHz) 5(2750~3000MHz) 15(3000~4800MHz) 30(4800~5000MHz) 30(5150~5850MHz) 20(7200~7500MHz)	2.0	50	2.50x2.00x0.70	A
RFBPF2520080AUT	2.4~2.5	2.2	30(900MHz) 30(1850MHz) 33(2170MHz) 35(4800MHz) 25(7200MHz)	2.0	50	2.50x2.00x0.70	A
RFBPF2520120A1T	2.4~2.5	1.7	30(900MHz) 30(1850MHz) 20(2100MHz) 40(4800MHz) 25(7200MHz)	2.0	50	2.50x2.00x1.20	A

5GHz BAND WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1005040K0T	4.9~5.95	1.2max.(25℃) 1.5max.(-40~+85℃)	20(2400~2500MHz) 20(9800~11900MHz) 18(14700~17850MHz)	2.0	50	1.00x0.50x0.40	B
RFBPF1606KM9T16	5.15~7.125	0.9max.(25℃) 1.1max.(-40~+85℃)	40(2400~2500MHz) 30(10300~14250MHz) 30(15450~21375MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1608060K2T	4.9~5.84	1.5max.(25℃) 1.7max.(-40~+85℃)	33(100~2170MHz) 29(2170~2500MHz) 32(9800~12000MHz)	2.0	50	1.60x0.80x0.70	B
RFBPF1608060K68Q1C	4.9~5.9	1.3max.(25℃) 1.5max.(-40~+85℃)	38(30~2700MHz) 16(3453~3547MHz) 33(3667~3883MHz) 9(6900~7093MHz) 32(7333~7750MHz) 40(10600~11650MHz) 18(15540~17760MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1608060K78Q1C	5.15~5.95	0.8max.(25℃) 1.0max.(-40~+85℃)	40(30~2700MHz) 45(3400~3800MHz) 20(7250~7800MHz) 20(10300~11700MHz)	1.5	50	1.60x0.80x0.60	D
RFBPF1608060K88Q1C	5.15~5.95	0.7max.(25℃) 0.85max.(-40~+85℃)	35(30~2700MHz) 30(3400~3800MHz) 12(7250~7800MHz) 20(10300~11700MHz)	1.5	50	1.60x0.80x0.60	D
RFBPF1608060K98Q1C	5.15~5.95	0.6max.(25℃) 0.8max.(-40~+85℃)	40(30~2700MHz) 12(7250~7800MHz) 20(7250~7800MHz) 2(10300~11700MHz)	1.5	50	1.60x0.80x0.60	D
RFBPF1608060KC8Q1C	4.90~5.95	1.3max.(25℃) 1.5max.(-40~+85℃)	38(30~2700MHz) 16(3453~3547MHz) 33(3667~3883MHz) 9(6900~7093MHz) 32(7333~7750MHz) 40(10600~11650MHz) 18(15540~17760MHz)	1.5	50	1.60x0.80x0.60	D
RFBPF1608060KG8D1T	5.15~5.95	0.8	40(30~2700MHz) 45(3400~3800MHz) 20(6900MHz) 20(7250~7800MHz) 20(10300~11700MHz)	1.67	50	1.60x0.80x0.60	D
RFBPF1608060KVT	4.90~5.84	1.5max.(25℃) 1.7max.(-40~+85℃)	33(100~2170MHz) 29(2170~2500MHz) 32(9800~12000MHz)	2.0	50	1.60x0.80x0.60	B
RFBPF1607K118D1T	5.15~5.95	0.6max.(25℃) 0.8max.(-40~+85℃)	35(2400~2500MHz) 30(10300~11700MHz) 30(15540~17550MHz)	1.57	50	1.60x0.80x0.60	D
RFBPF1606K12T	5.15~5.925	1.1max.(25℃) 1.3max.(-40~+85℃)	38(10~2700MHz) 20(2700~3550MHz) 15(3550~4000MHz) 3(4000~4500MHz) 5(4400MHz) 3(6500~7000MHz) 11(7000~7400MHz) 13(7400~9750MHz) 30(9750~10300MHz) 27(10300~12750MHz) 10(15540~17775MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1607K158D1T	5.15~5.95	0.6max.(25℃) 0.8max.(-40~+85℃)	35(2400~2500MHz) 30(10300~11900MHz) 25(15450~17850MHz)	1.57	50	1.60x0.80x0.60	D
RFBPF1606K16T	4.90~5.925 5.95~6.425	1.1max.(25℃) 1.2max.(-40~+85℃) 1.6.1max.(25℃) 1.8max.(-40~+85℃)	38(30~2700MHz) 35(3400~3800MHz) 15(6900MHz) 20(7250~7800MHz) 20(10300~11700MHz)	2.0	50	1.60x0.80x0.60	D

5GHz BAND WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1606K28T	4.90~5.95	1.2max.(25℃) 1.4max.(-40~+85℃)	38(30~2700MHz) 16(3453~3547MHz) 33(3667~3883MHz) 9(6900~7093MHz) 32(10600~11650MHz) 18(15540~17760MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1606K358Q1C	5.15~7.125	1.3(5150~5250MHz) 1.2(5250~5350MHz) 1.0(5500~5850MHz) 1.0(5850~7015MHz) 1.2(7015~7125MHz)	40(100~960MHz) 40(1160~1250MHz) 38(1420~1610MHz) 38(1690~2200MHz) 38(2300~2370MHz) 38(2400~2490MHz) 38(2490~2690MHz) 38(3300~3800MHz) 35(3800~4200MHz) 11(4500~4600MHz) 14(8220~8500MHz) 27(9000~9600MHz) 25(9600~9800MHz) 25(10300~11850MHz) 30(11850~14250MHz) 20(15450~21750MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1607K378D1T	5.15~5.955	0.6max.(25℃) 0.8max.(-40~+85℃)	35(2400~2500MHz) 30(10300~11900MHz) 25(15450~17850MHz)	1.57	50	1.60x0.80x0.60	D
RFBPF1606K41T	5.15~7.125	1.1max.(25℃) 1.3max.(-40~+85℃)	40(100~960MHz) 40(1160~1250MHz) 40(1420~1610MHz) 40(1690~2200MHz) 40(2300~2370MHz) 40(2400~2490MHz) 40(2490~2690MHz) 43(3300~3800MHz) 20(3800~4200MHz) 35(9600~9800MHz) 36(10300~11850MHz) 30(11850~14250MHz) 15(15450~21750MHz)	2.0	50	1.60x0.80x0.60	D
RFBPF1606K488A2U	5.15~6.425	1.35(5150~5925MHz) 2.00(5925~6425MHz)	30(2700~4200MHz) 33(7200MHz) 25(10300~11800MHz) 10(14500~19100MHz)	1.7	50	1.60x0.80x0.60	D
RFBPF2012100KST	4.9~5.9	1.5(4.90GHz) 1.5(5.25GHz) 1.5(5.85GHz)	30(3450MHz) 20(11000MHz)	2.0	50	2.00x1.20x1.00	B
RFBPF2012100K0T	4.9~5.9	1.7(4.90GHz) 1.5(5.25GHz) 1.5(5.85GHz)	30(3450MHz) 20(11000MHz)	2.0	50	2.00x1.20x1.00	B
RFBPF2012090K5T	4.9~5.85	2.2max.(25℃) 2.5max.(-40~+85℃)	35(340~1195MHz) 19(2140~3580MHz) 25(6855~7150MHz) 20(8570~8930MHz)	2.0	50	2.00x1.20x0.90	B
RFBPF2012100K3T	4.9~5.85	1.8max.(25℃) 2.1max.(-40~+85℃)	30(500MHz) 35(3450MHz) 30(4000MHz) 20(4200MHz) 15(9800MHz) 15(11700MHz)	2.0	50	2.00x1.20x0.95	B
RFBPF2012100K6T	5.15~5.85	1.6max.(25℃) 1.8max.(-40~+85℃)	30(500MHz) 40(2000MHz) 35(3450MHz) 30(4000MHz) 20(4200MHz)	2.0	50	2.00x1.20x0.95	B
RFBPF2009K648A2U	5.16~6.425	2.0max.	30(3300~4200MHz) 25(4200~4600MHz) 20(4600~4800MHz) 10(4800~4900MHz) 2(4900~5000MHz) 30(7250~7750MHz)	2.0	50	2.00x1.20x0.95	B

WiMAX BAND WORKING FREQUENCY

Part Number	Frequency Range(GHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF10033G7W07Q6U	3.3~4.2	1.5max.(25℃) 1.7max.(-40~+85℃)	23(1400~2000MHz) 25(1710~1880MHz) 12(2400~2482MHz) 22(2496~2690MHz) 19(6600~8400MHz) 19(13200~16800MHz)	1.67	50	1.00x0.50x0.32	L
RFBPF10053G7W2T	3.3~4.2	2.0max.(25℃) 2.2max.(-40~+85℃)	20(600~960MHz) 20(1164~1300MHz) 25(1476~1511MHz) 25(1559~1610MHz) 25(1710~2200MHz) 25(2300~2690MHz) 18(2400~2482MHz) 1(4215~5115MHz) 20(5150~5925MHz) 10(6600~8400MHz) 10(9900~12600MHz) 15(13200~21000MHz)	2.0	50	1.00x0.50x0.35	L
RFBPF1606A18T	2.3~2.39	2.0max.(25℃) 2.3max.(-40~+85℃)	29(880~915MHz) 29(1710~1785MHz) 21(1850~1910MHz) 15(1920~1980MHz) 18(4600~4780MHz) 23(6900~7170MHz)	2.0	50	1.60x0.80x0.70	B

1558 ~ 1606 MHz GNSS Band Applications

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1109060E0T	1550~1610	1.9max.	25(960MHz) 8(1850MHz) 15(1990MHz) 20(2170MHz) 35(2400~2500MHz) 35(3400~3800MHz)	2.0	50	1.10x0.90x0.60	E
RFBPF1411070E0T	1558~1606	1.8max.(25℃) 2.0max.(-40~+85℃)	30(824~849MHz) 30(880~915MHz) 10(1880~1910MHz) 22(1920~1980MHz) 30(2400MHz)	2.0	50	1.40x1.10x0.70	E

MoCA / Docsis Application

Part Number	Frequency Range(MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF3225180Y1T	975~1025	3.0	30(54~870MHz) 30(1125~1675MHz) 30(2300MHz)	2.0	75	3.20x2.50x1.80	K
RFBPF3225200Y07B1U	475~675	2.5max.(25℃) 2.7max.(-40~+85℃)	60(2.5MHz) 40(2.5~100MHz) 35(100~200MHz) 35(200~300MHz) 8(300~400MHz) 57(950MHz) 47(950~2025MHz) 41(2025~2500MHz) 35(2500~3000MHz)	2.0	75	3.20x2.50x1.80	K
RBBPF3225180Y27B1U	400~700	2.0	42(1~200MHz) 30(950~2150MHz) 35(2150~3000MHz) 27(3000~5900MHz)	2.0	50	3.20x2.50x1.80	K
KFBPF2012100C67B1U	1125~1675	2.5	35(1~900MHz) 20(900~1002MHz) 35(2000~2500MHz) 20(2500~5900MHz)	2.0	50	2.00x1.25x1.05	K
RFBPF3225180C07B1U	1125~1675	1.8max.(25℃) 2.0max.(-40~+85℃)	30(5~864MHz) 34(864~1002MHz) 32(2300~3000MHz)	2.0	75	3.20x2.50x1.80	K
RBBPF3225180C67B1U	1125~1675	2.0	40(1~900MHz) 25(900~1002MHz) 35(2000~2500MHz) 27(2500~5900MHz)	2.0	50	3.20x2.50x1.80	K

860~960MHz/1805~2025 MHz Band Application

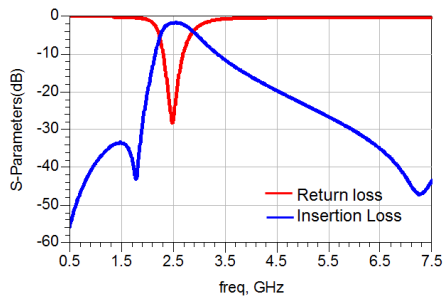
Part Number	Frequency Range(MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1109B101T	2110~2170	1.7	25(4280MHz)	2	50	1.10x0.90x0.60	E
RFBPF1109B201T	1930~1990	1.7	25(3920MHz)	2	50	1.10x0.90x0.60	E
RFBPF1109B301T	1805~1880	1.4	25(3685MHz)	2	50	1.10x0.90x0.60	E
RFBPF1109B501T	869~894	0.9	12(1763MHz)	2	50	1.10x0.90x0.60	E
RFBPF1109B701T	2620~2690	1.2	25(5310MHz)	2	50	1.10x0.90x0.60	E

LTE Band Application

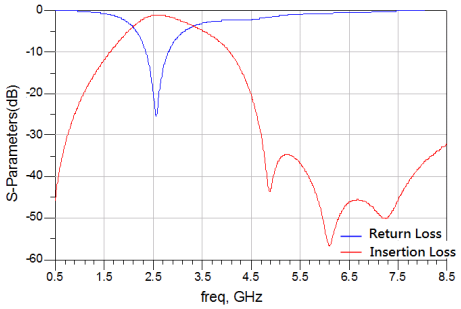
Part Number	Frequency Range(MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	STRUCTURE
RFBPF1109B801T	925~960	0.9	12(1885MHz)	2	50	1.10x0.90x0.60	E
RFBPF1607E11T	1427~2690	0.5max.(25℃) 0.6max.(-40~+85℃)	11(617~915MHz) 17(5150~5960MHz)	1.67	50	1.60x0.80x0.65	G
RFBPF16081G9DM1T79	1805~2025	1.6max.(25℃) 1.8max.(-40~+85℃)	25(700~950MHz) 15(950~1050MHz) 25(2400~2500MHz) 35(2700~5150MHz) 40(5150~5850MHz) 25(5850~12750MHz)	2	50	1.60x0.80x0.70	G
RFBPF16081G9DMAT79	1880~2025	2.0max.(25℃) 2.2max.(-40~+85℃)	20(1545~1610MHz) 25(2400~2500MHz) 25(5150~5850MHz)	2	50	1.60x0.80x0.70	G
RFBPF16081G9DS8T60	1805~2025	1.6	30(700~950MHz) 15(950~1050MHz) 25(2400~2500MHz) 35(2700~5400MHz) 35(5500~6200MHz) 35(9350~10150MHz) 20(10500~12750MHz	2	50	1.60x0.80x0.70	G
RFBPF16081G9D87O1C	1805~2025	1.90(1805~1880MHz) 1.80(1880~2025MHz)	20(1545~1610MHz) 18(2400~2500MHz) 25(5150~5850MHz)	2	50	1.60x0.80x0.70	G

TYPICAL ELECTRICAL CHARACTERISTICS

RBBPF1005040A1T



RFBPF1005040A3T



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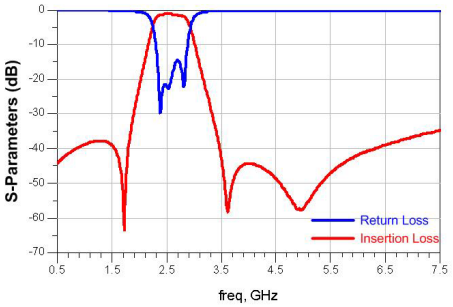
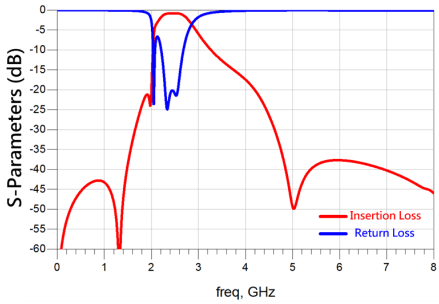


RFBPF1109060A28Q1C



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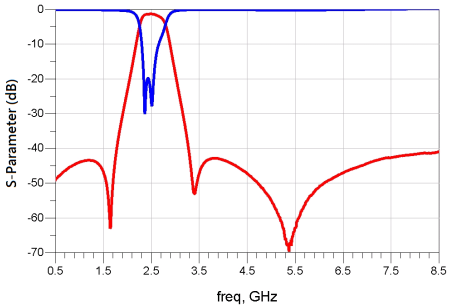

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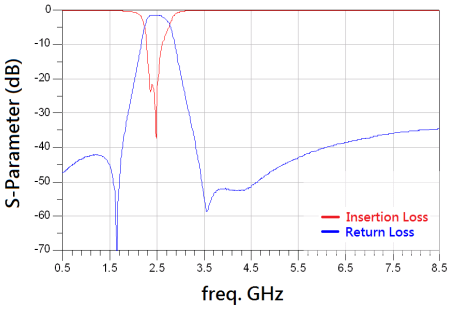

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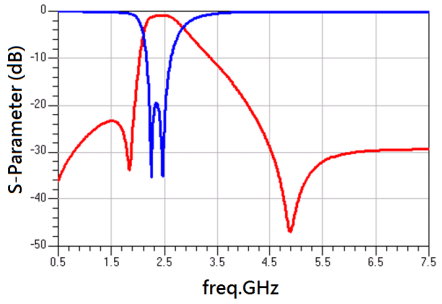

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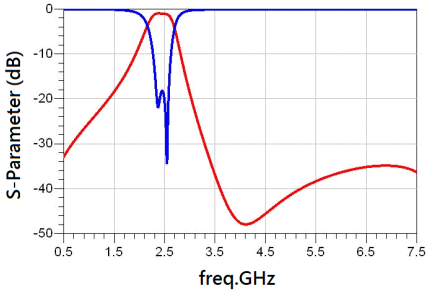

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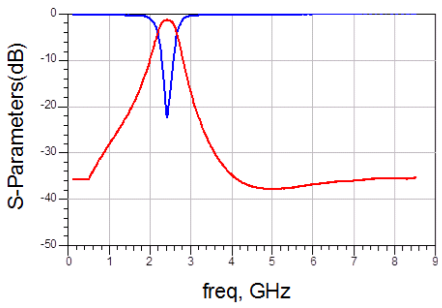

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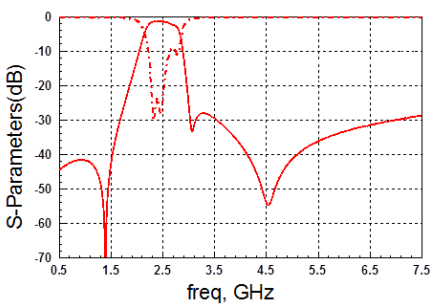
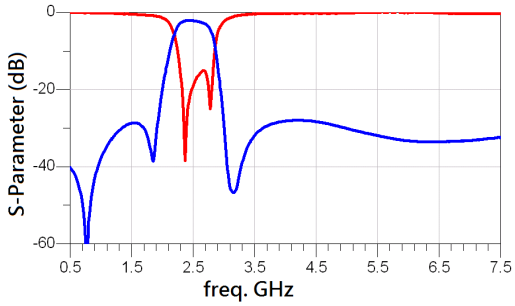
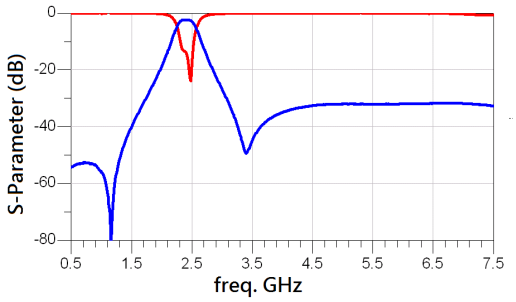


TYPICAL ELECTRICAL CHARACTERISTICS

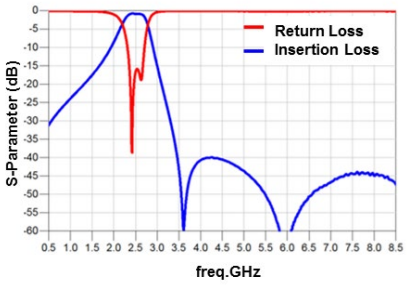
RFBPF1608060A1T



RFBPF1608060A7T



RFBPF1606A10T



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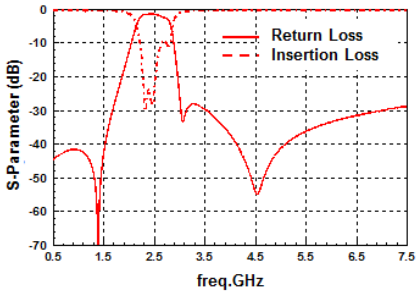
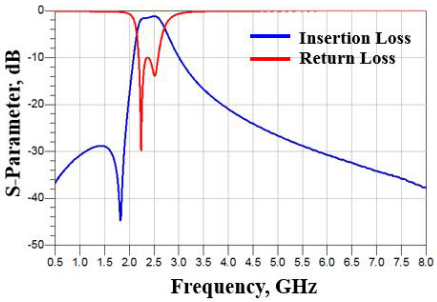


RFBPF1606A14T

RFBPF1606A15T

RFBPF1606A17T



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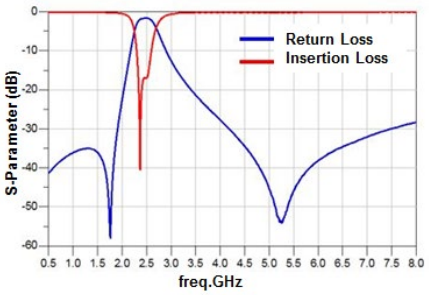

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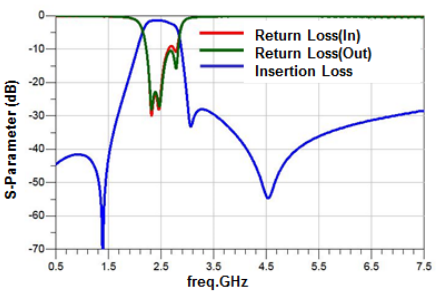

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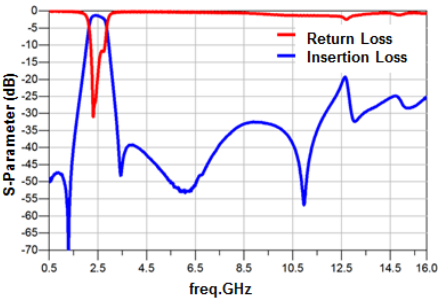
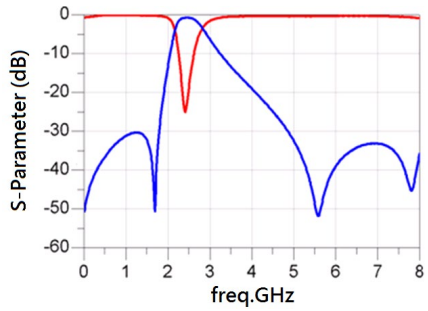


TYPICAL ELECTRICAL CHARACTERISTICS

RFBPF2012090AS1T35



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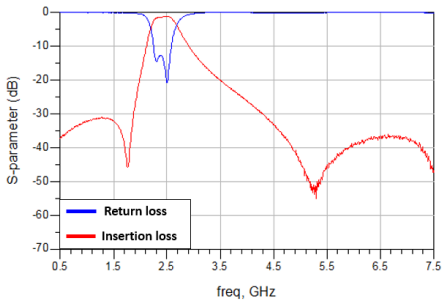
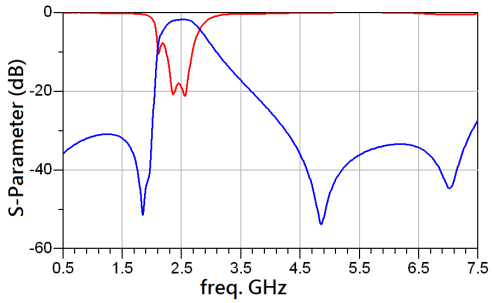
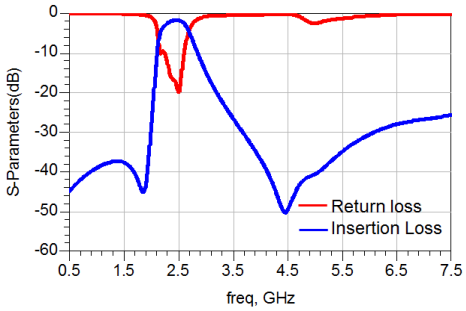


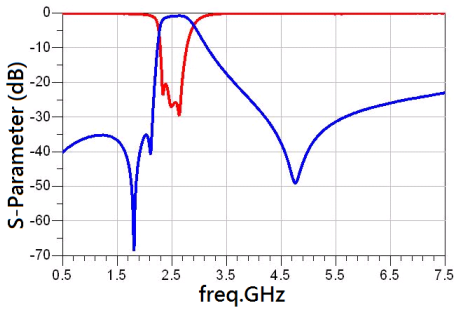
RFBPF2012040ABT



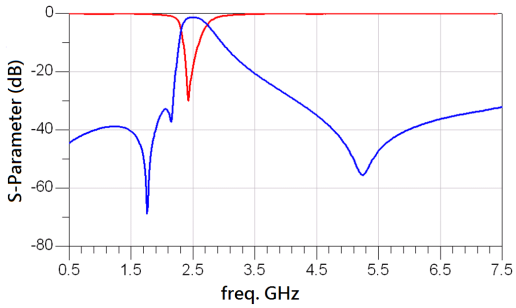
RFBPF2012050ACT



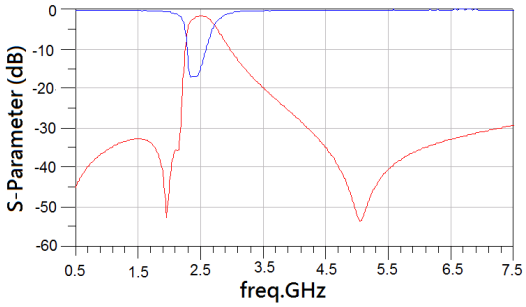
RFBPF2012080ADT



RFBPF2012040AHT



RBBPF2012050AHT



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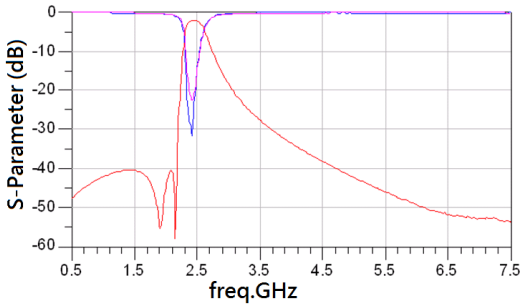
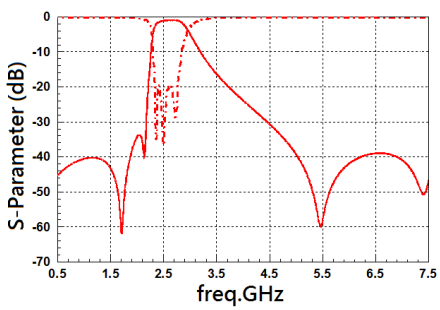


RFBPF2012100ANT



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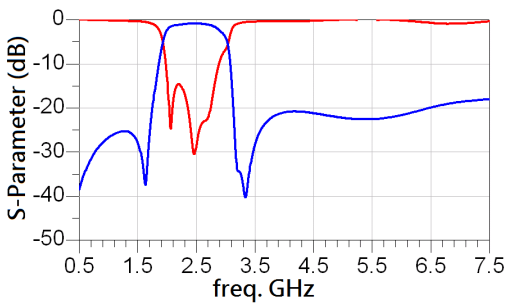
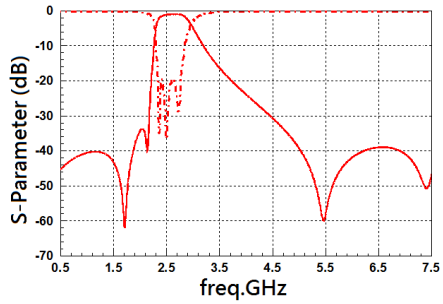


TYPICAL ELECTRICAL CHARACTERISTICS

RFBPF2012100AVT



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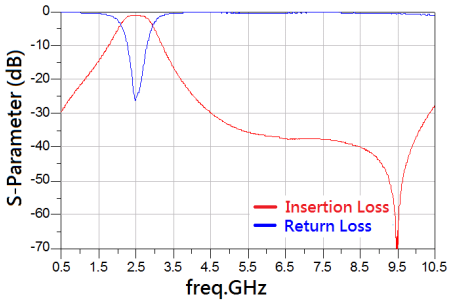

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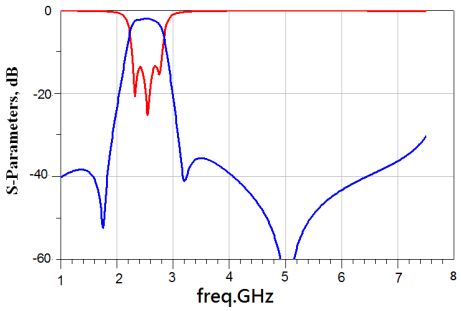

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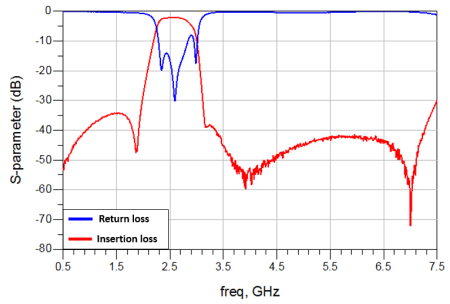

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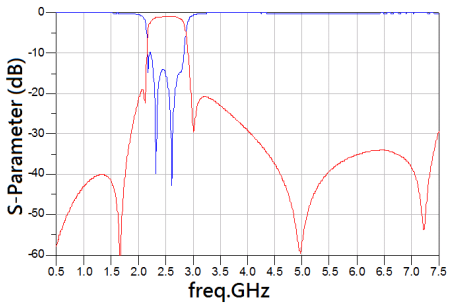

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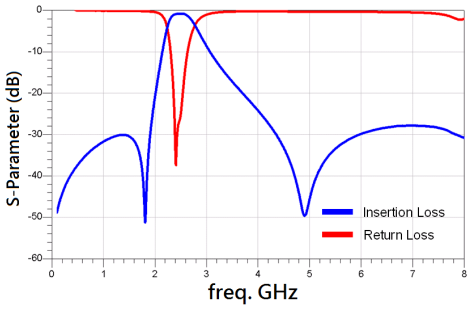

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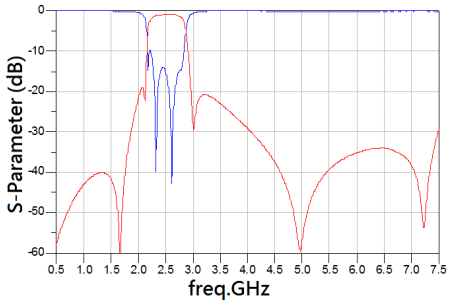

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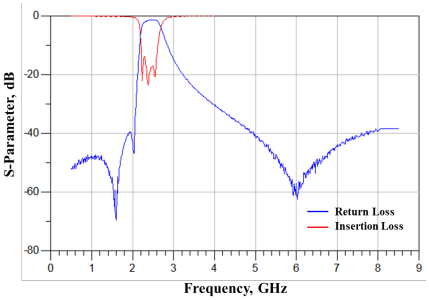

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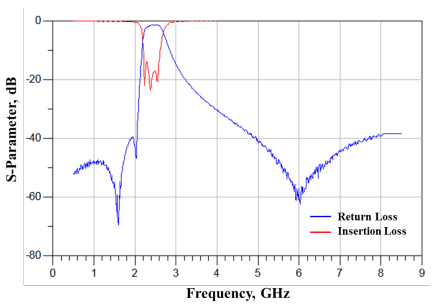

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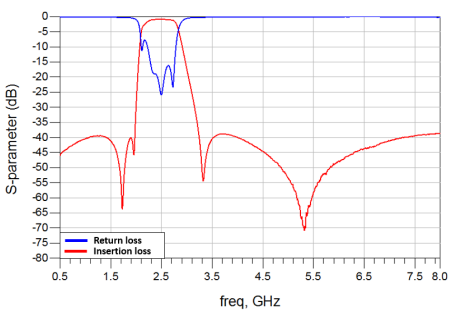
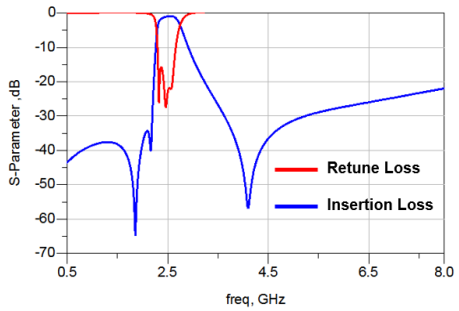


TYPICAL ELECTRICAL CHARACTERISTICS

RFBPF2008A38T



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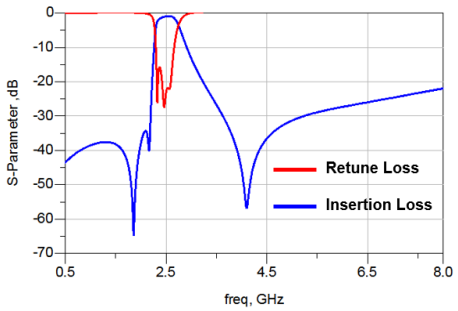

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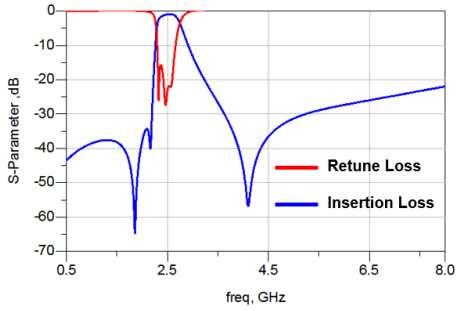

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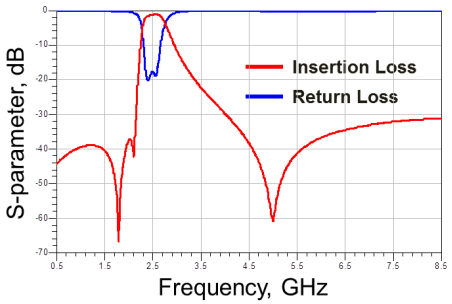

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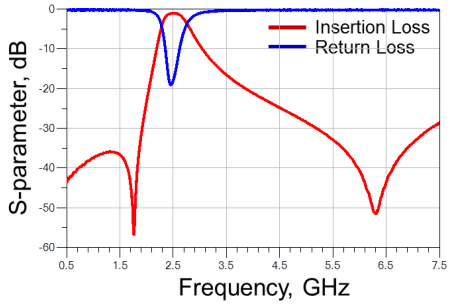

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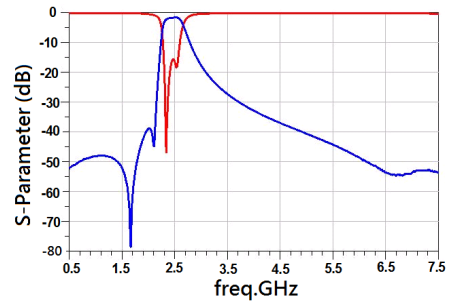

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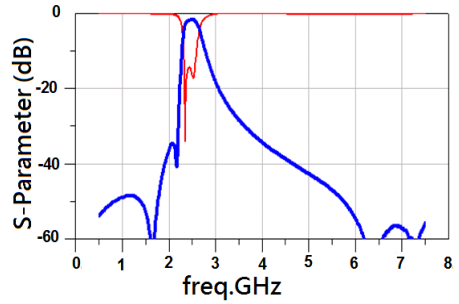

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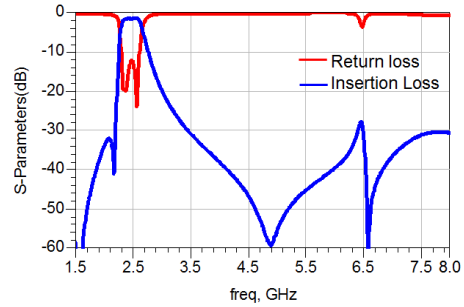

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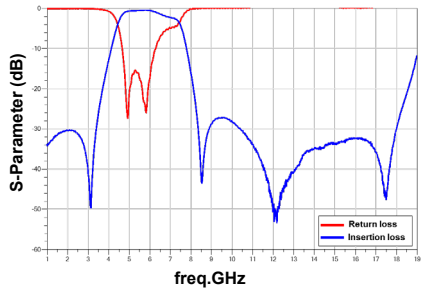

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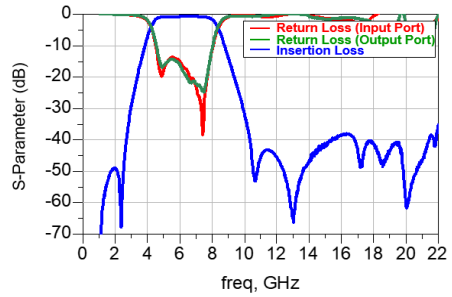

TYPICAL ELECTRICAL CHARACTERISTICS

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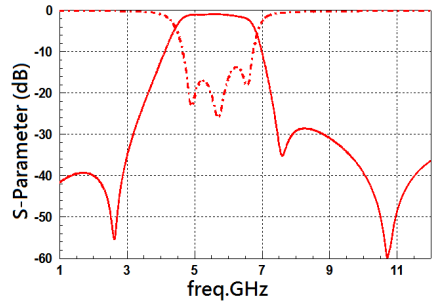

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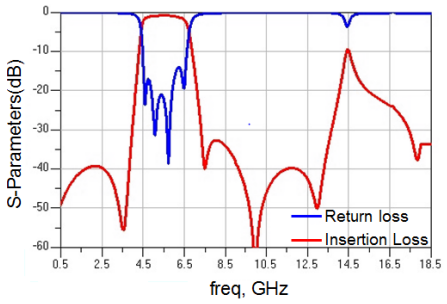

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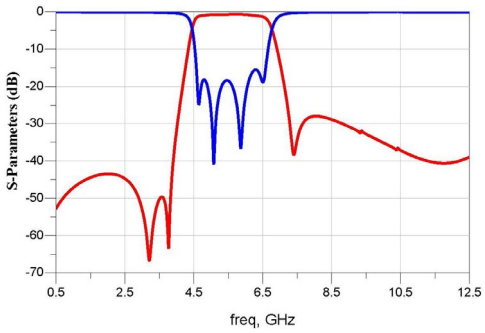

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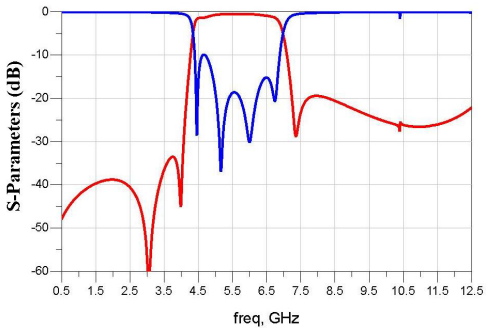

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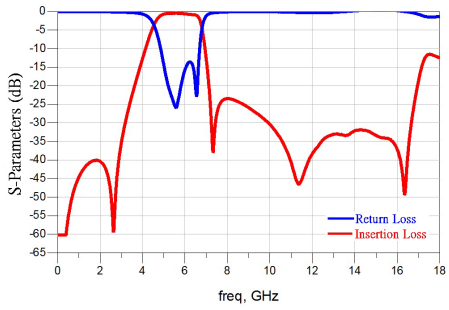

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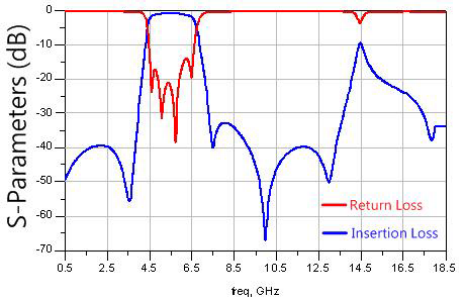

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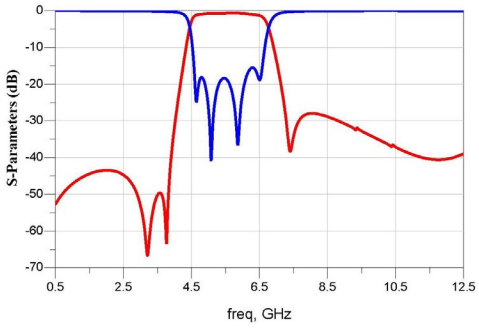

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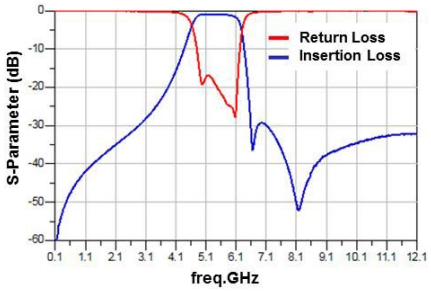

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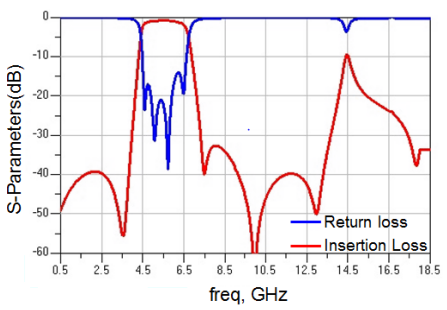

TYPICAL ELECTRICAL CHARACTERISTICS

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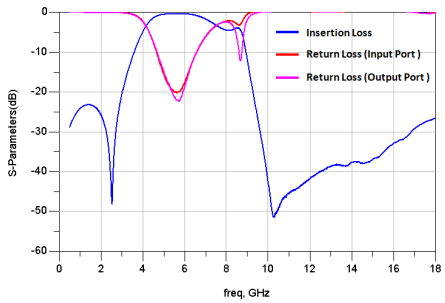

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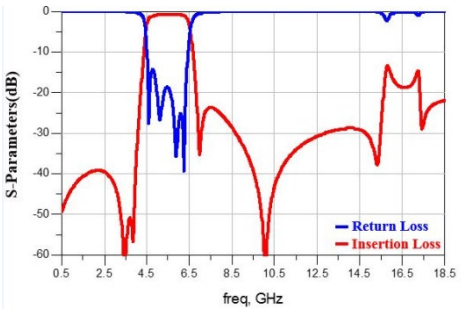

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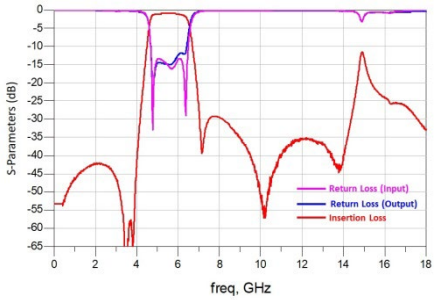

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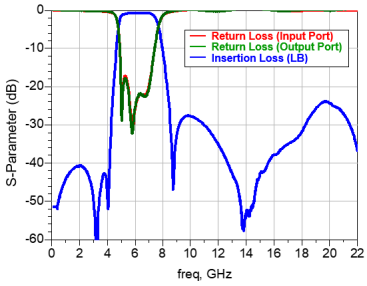

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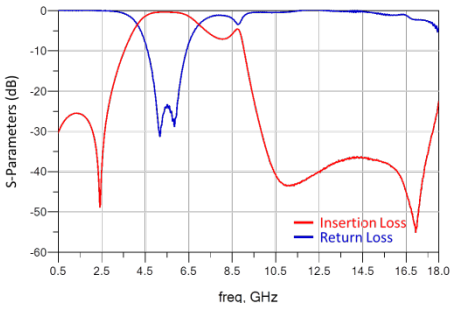

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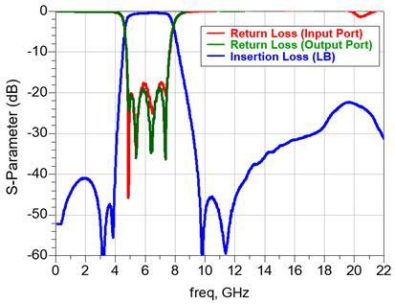

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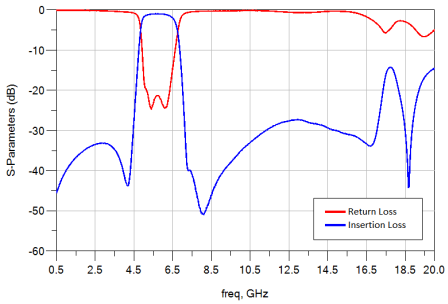

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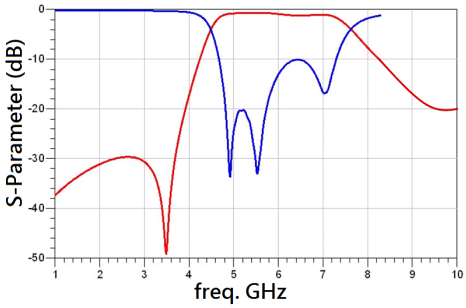

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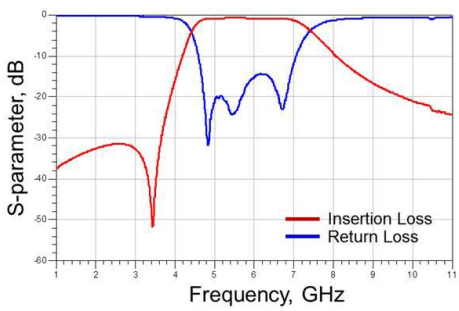

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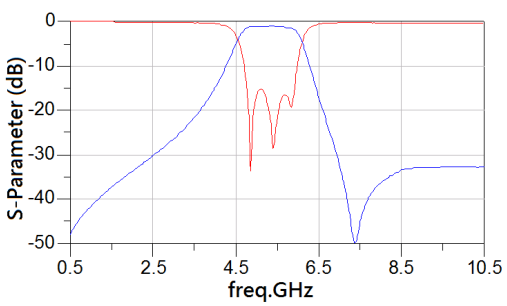

TYPICAL ELECTRICAL CHARACTERISTICS

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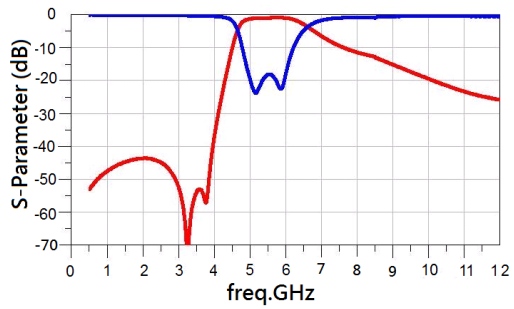

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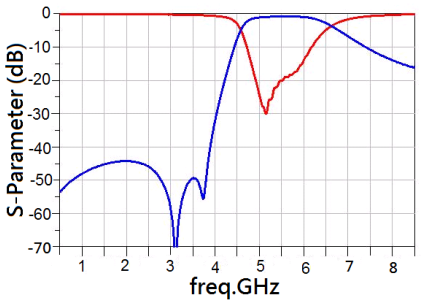

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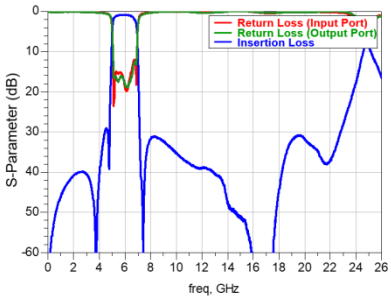

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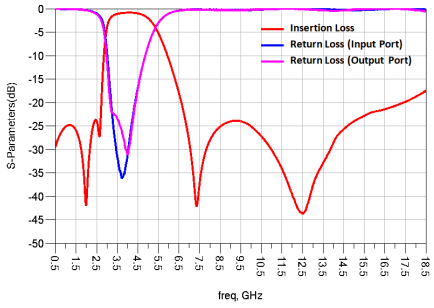

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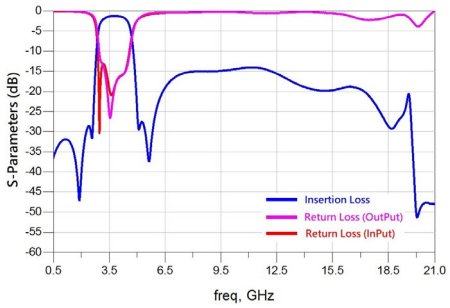

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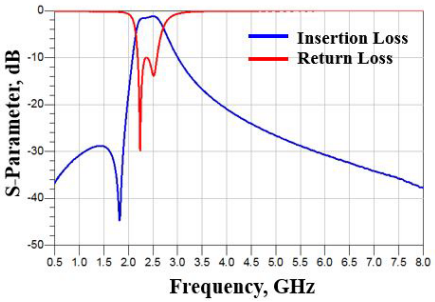

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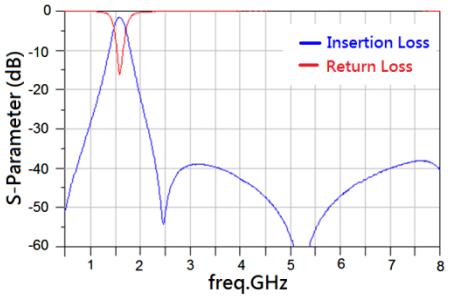

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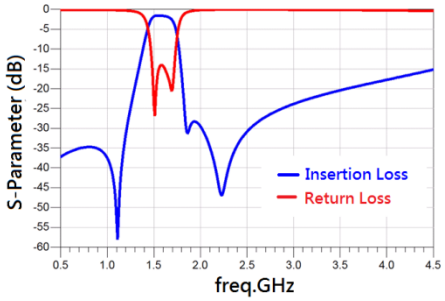

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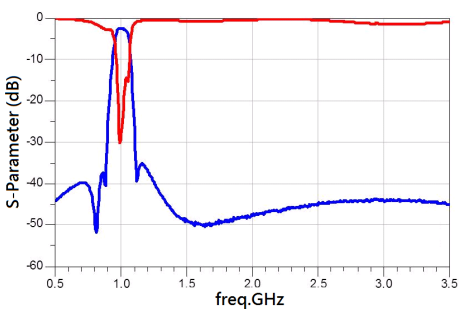

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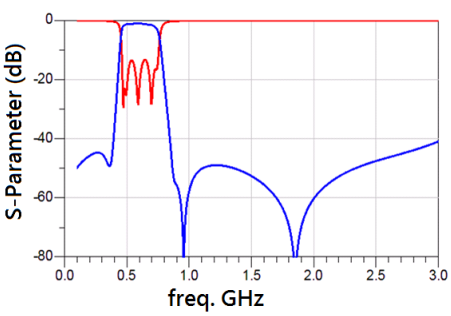

TYPICAL ELECTRICAL CHARACTERISTICS

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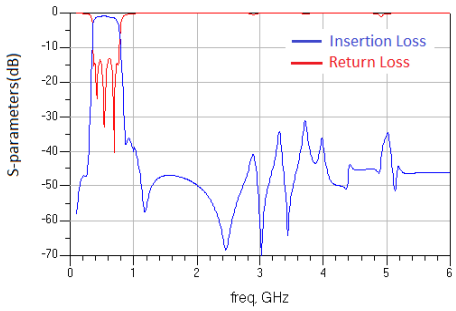

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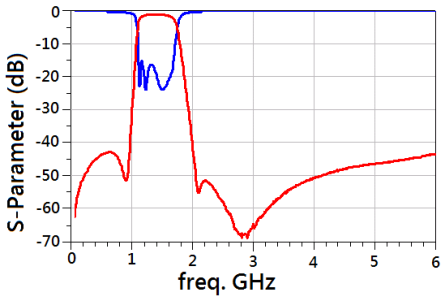

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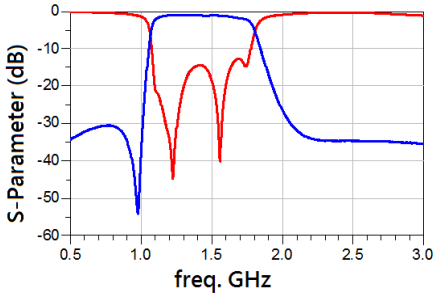

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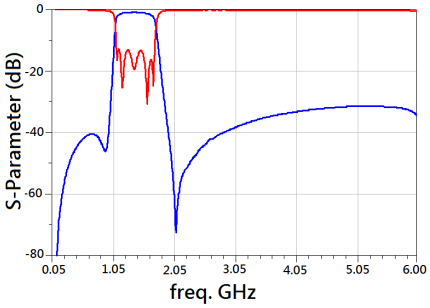

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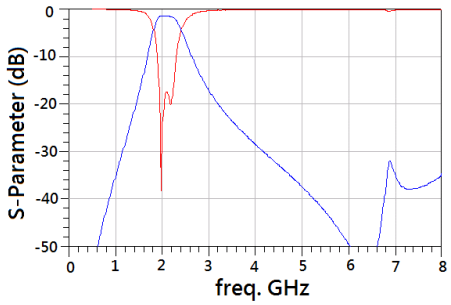

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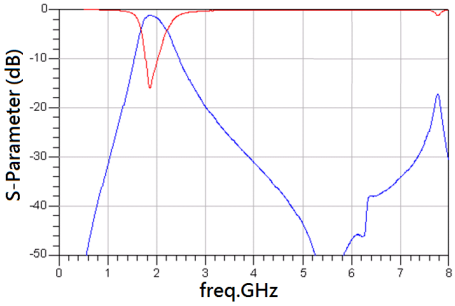

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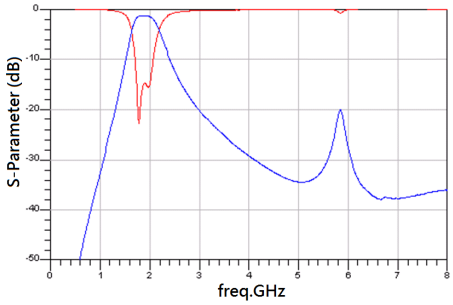

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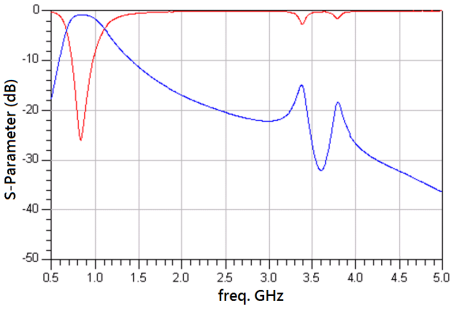

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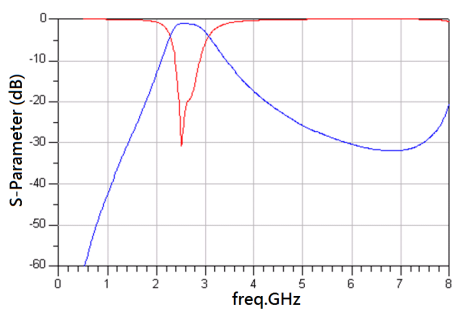

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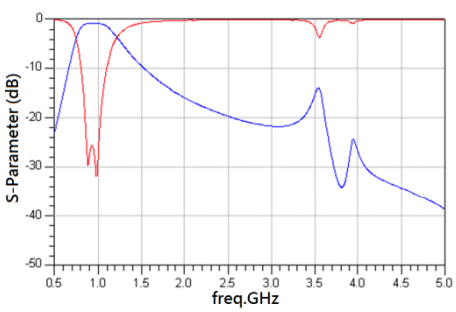

TYPICAL ELECTRICAL CHARACTERISTICS

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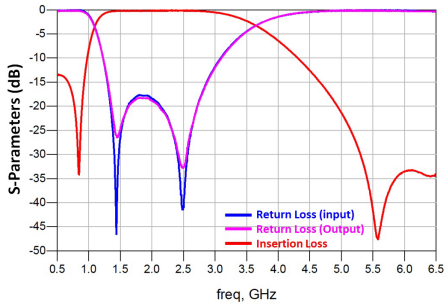

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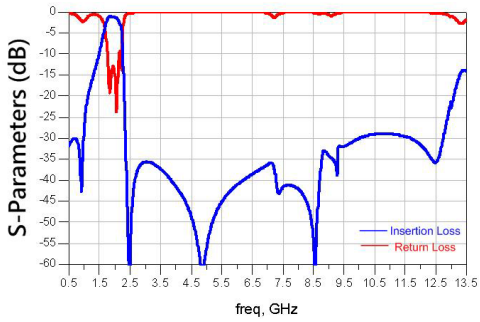

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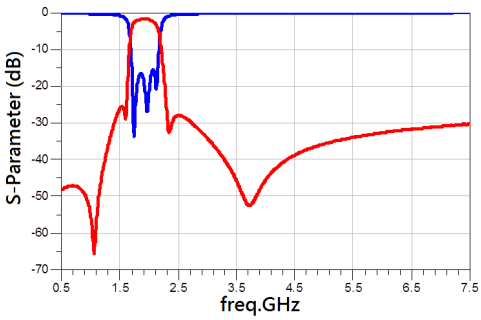

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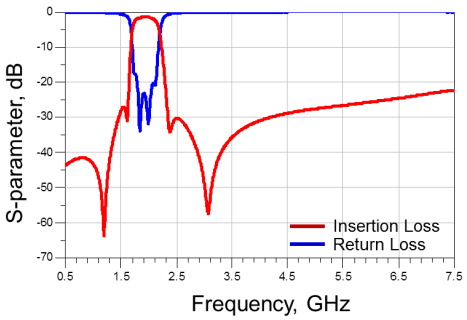
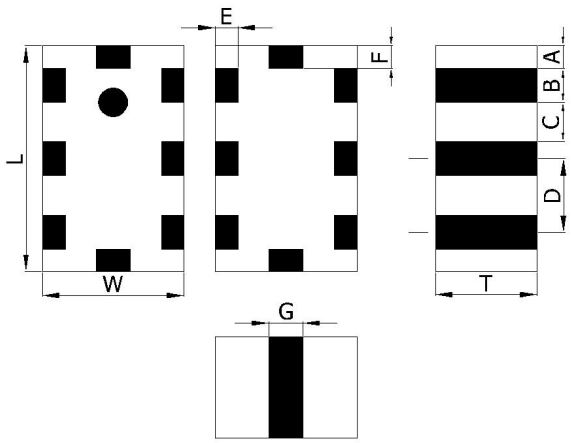


- **For more information, please contact with local sales representative**
- **All specifications are subject to change without notice**

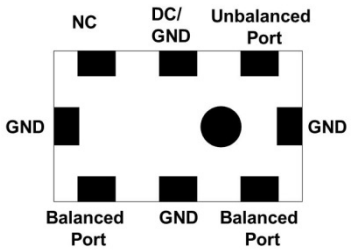
HIGH FREQUENCY MULTILAYER BALANCED FILTER

■ STRUCTURE AND PIN ASSOCIATED

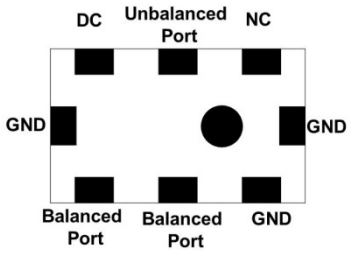
STRUCTURE A



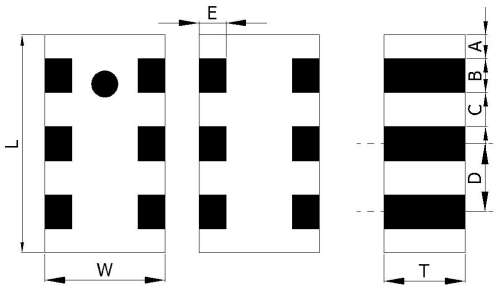
STRUCTURE A-1

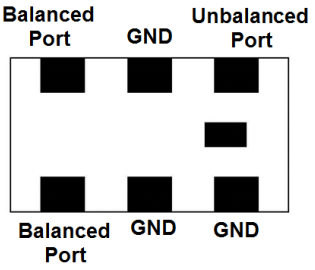


STRUCTURE A-2

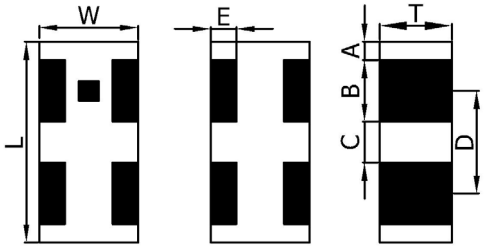


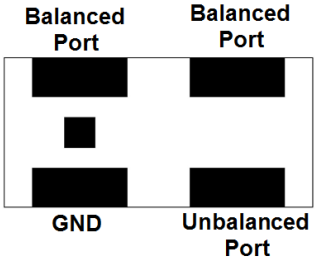
STRUCTURE B





STRUCTURE C





■ STRUCTURE AND DIMENSION

Unit: mm

Structure\ Dimension	L	W	T	A	B	C	D	E	F	G
A	1.60±0.15	0.80±0.15	0.60±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	0.20±0.15	0.30±0.15
	2.00±0.15	1.20±0.10	0.40±0.10	0.175±0.10	0.35±0.15	0.30±0.15	0.65±0.10	0.20±0.10	0.20±0.15	0.50±0.10
		1.25±0.15	0.50±0.10	0.20±0.15	0.30±0.15	0.35±0.15	0.65±0.15	0.20±0.15	0.20±0.15	0.30±0.15
			0.60±0.10	0.20±0.15	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.15	0.20±0.15	0.50±0.10
			0.90±0.10	0.20±0.15	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.15	0.20±0.15	0.30±0.10
							0.63±0.10	0.20±0.15	0.20±0.15	0.50±0.10
			1.00±0.10	0.20±0.15	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.10	0.20±0.15	0.50±0.10
			1.10±0.10	0.20±0.15	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.15	0.20±0.15	0.55±0.10
					0.50±0.10	0.35±0.10	0.65±0.10	0.20±0.15	0.20±0.15	0.50±0.10
	2.50±0.20	2.00±0.20	0.85±0.10	0.35±0.20	0.40±0.10	0.30±0.10	0.70±0.20	0.15(Typical)	0.15(Typical)	1.20±0.20
B	1.60±0.15	0.80±0.15	0.65±0.15	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.25±0.15	0.20±0.15	-
	1.95±0.15	1.25±0.15	0.80±0.10	0.175±0.15	0.30±0.15	0.35±0.15	0.65±0.15	0.25±0.15	-	-
	2.00±0.15	1.25±0.10	0.60±0.10	0.20±0.10	0.30±0.15	0.35±0.15	0.65±0.10	0.25±0.10	-	-
C	1.00±0.10	0.05±0.10	0.40±0.10	0.10±0.10	0.30±0.10	0.20±0.10	0.50±0.10	0.12±0.10	-	-

■ ELECTRICAL SPECIFICATION

2.4GHz BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Impedance(Ω)		Insertion Loss (dB)	Attenuation (dB min.)	VSWR (Max.)	Phase Difference	Amplitude Difference	Size (mm)	STRUCTURE
		Unbalance	Balance							
RFBPB10052G4W0T	2.36~2.5	50	Match to NXP NxH2003	0.9max.(25℃) 1.1max. (-40~+85℃)	5(4800~5000MHz) 15(7200~7500MHz) 5(9600~10000MHz)	2.0	180°± 10	1.5	1.00x0.50x0.40	C
RFBPB1606A168T2T	2.4~2.5	50	Conjugate match to TI CC2652P chipset	1.6max.(25℃) 1.8max. (-40~+85℃)	23(4800~5000MHz) 23(7200~7500MHz)	2.4	180°± 20	2.5	1.60x0.80x0.65	B
RFBPB2012090A1T	2.4~2.5	50	Conjugate match to BC series of Bluetooth chipset	3.5	35(880~960MHz) 30(1710~1880MHz) 20(1880~1990MHz) 30(4800~5000MHz)	2.1	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2012090A9T	2.4~2.5	50	Conjugate match to BC series of Bluetooth chipset	2.8	35(880~960MHz) 30(1575MHz) 25(1710~1880MHz) 30(4800~5000MHz)	2.1	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2012090AAT	2.4~2.5	50	Conjugate match to CSR BC03/ 04 series	3.5	35(880~960MHz) 30(1710~1880MHz) 20(1880~1990MHz) 30(4800~5000MHz)	2.1	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2012060ABT	2.4~2.5	50	Impedance match to T.I. CC253X,CC254X, CC257X, CC853X and CC852X Chipsets	1.5max.(25℃) 1.7max. (-40~+85℃)	12(1000MHz) 15(4800~5000MHz) 20(7200~7500MHz)	2.0	180°± 15	2	2.00x1.25x0.60	B

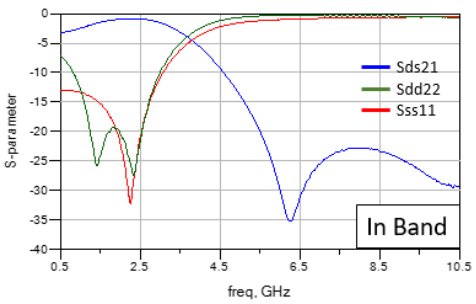
■ ELECTRICAL SPECIFICATION

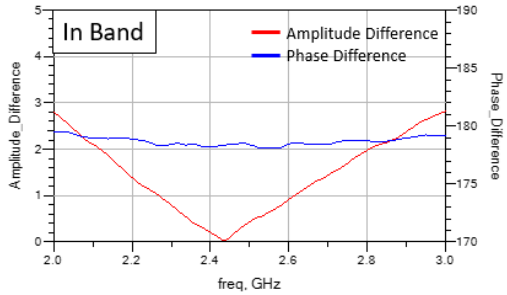
2.4GHz BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Impedance(Ω)		Insertion Loss (dB)	Attenuation (dB min.)	VSWR (Max.)	Phase Difference	Amplitude Difference	Size (mm)	STRUCTURE
		Unbalance	Balance							
RFBPB2012080AET	2.4~2.5	50	Impedance match to: Atmel AT86RF232, AT86RF233, ATMega256RFR2, Zigbit 256RFR2, Zigbit RF233, ZigBit RF233+FEM, Extension RF233, USB RF233	1.5max.(25℃) 1.7max. (-40~+85℃)	20(4800~5000MHz) 20(7200~7500MHz)	2.0	180°± 10	2	1.95x1.25x0.80	B
RFBPB2012090AHT	2.4~2.5	50	100	3.5	30(880~960MHz) 30(1710~1880MHz) 20(1880~1990MHz) 30(4800~5000MHz)	2.0	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2012090AM1T59	2.4~2.5	50	Conjunction to MT5931/MT6628 Chipset	2.5 (typ.2.2)	35(824~960 MHz) 32(1990 MHz) 18(2170 MHz) 40(4800~5000MHz) 25(7200~7500MHz)	2.0	180°± 10	2	2.00x1.25x0.95	A-1
RFBPB2012090AM1T61	2.4~2.5	50	Conjugate match to MTK MT6611 Bluetooth chipset	2.8	35(880~960MHz) 30(1710~1880MHz) 20(1880~1900MHz) 30(4800~5000MHz)	2.1	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2012100A6T	2.4~2.5	50	Conjugate match to BC series of Bluetooth chipset	3.5	35(880~960MHz) 30(1710~1880MHz) 20(1880~1900MHz) 40(4800~5000MHz)	2.0	180°± 10	2	2.00x1.25x1.00	A-1
RFBPB2012090AYT	2.4~2.5	50	50	2.8max.(25℃) 3.2max. (-40~+85℃)	30(880~960 MHz) 30(1710~1880 MHz) 20(1880~1990 MHz) 30(4800~5000 MHz)	2.0	180°± 10	2	2.00x1.25x0.90	A-1
RFBPB2520090A7T	2.4~2.5	50	Conjugate match to TI BRF6150	3.5	35(880~960MHz) 30(1710~1880MHz) 25(1880~1990MHz) 25(4800~5000MHz)	2.0	180°± 15	1.5	2.50x2.00x0.90	A-2

■ TYPICAL ELECTRICAL CHARACTERISTICS

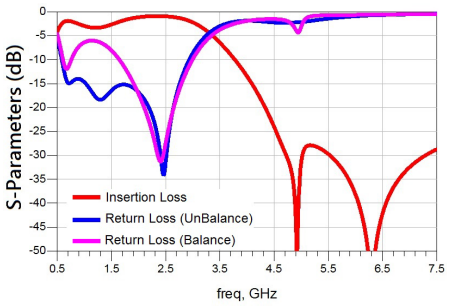
RFBPB10052G4W0T

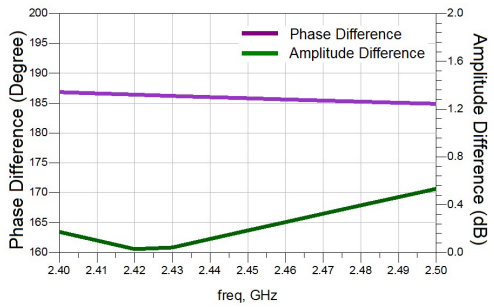




■ TYPICAL ELECTRICAL CHARACTERISTICS

RFBPB1606A168T2T





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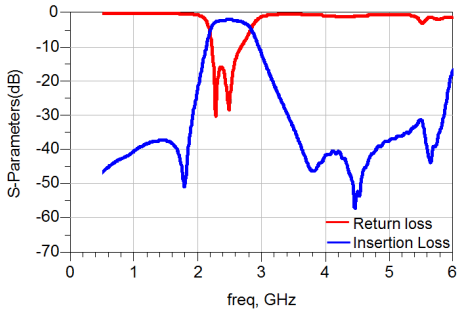

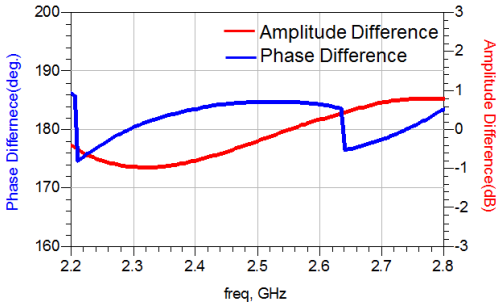

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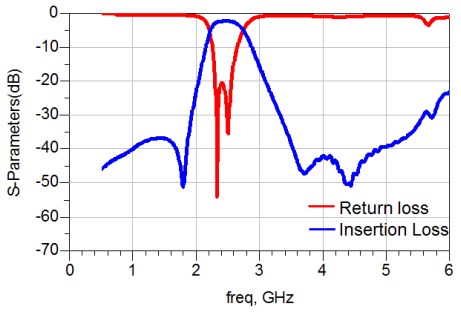

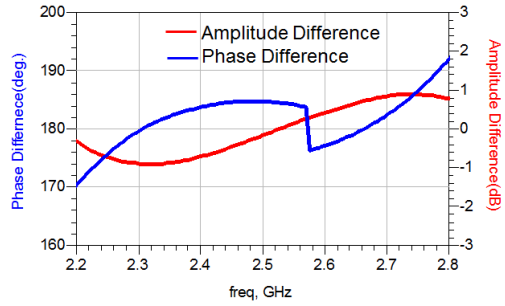

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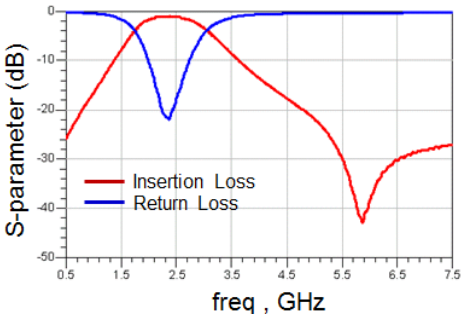

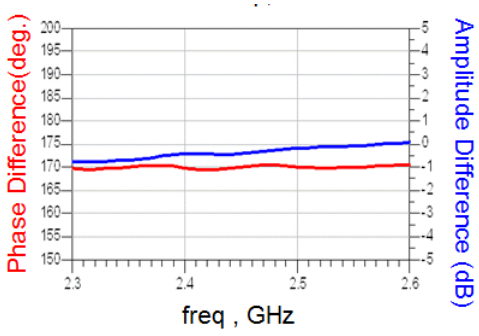

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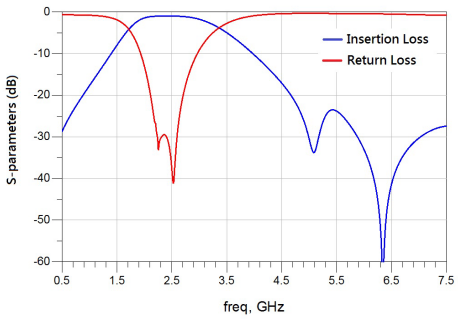
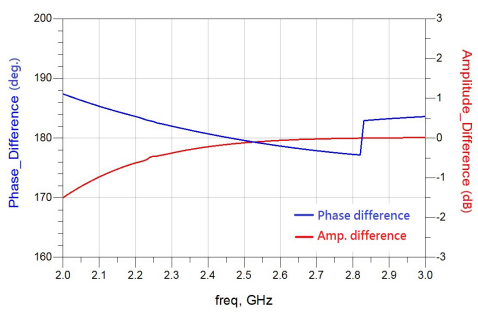
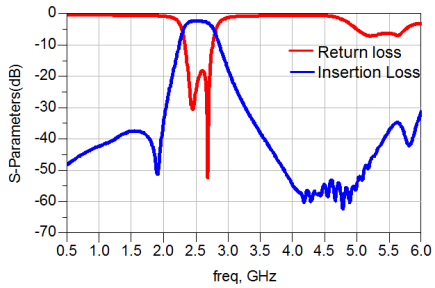
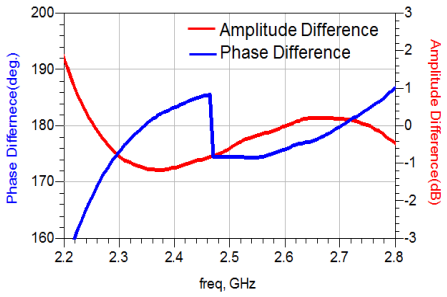




■ TYPICAL ELECTRICAL CHARACTERISTICS

RFBPB2012090AHT





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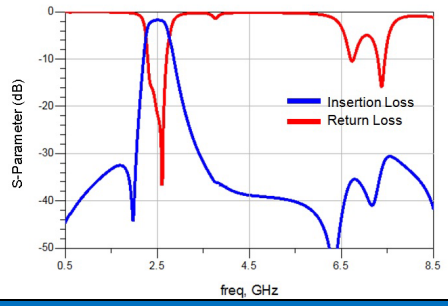

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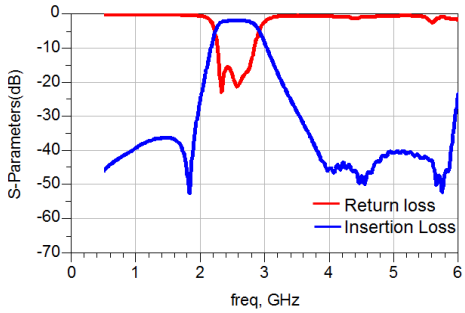

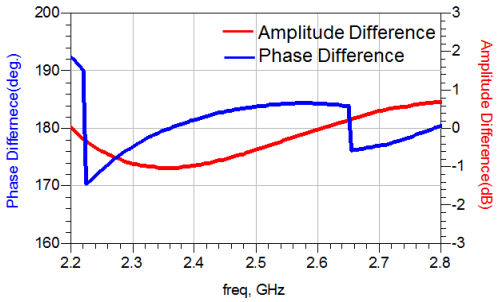

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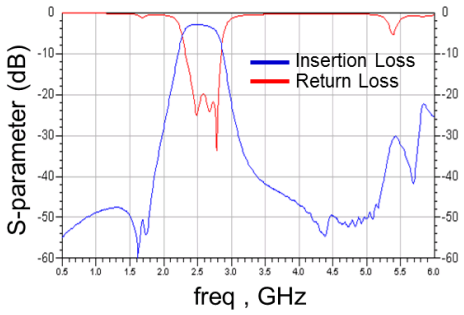

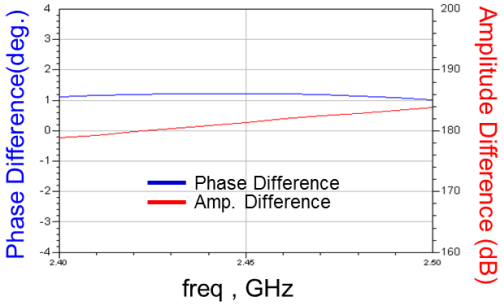

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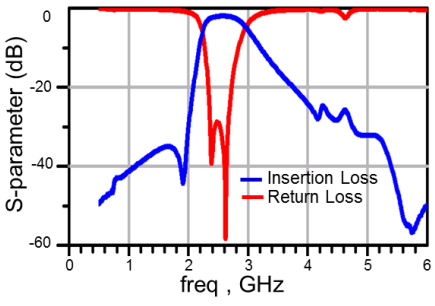
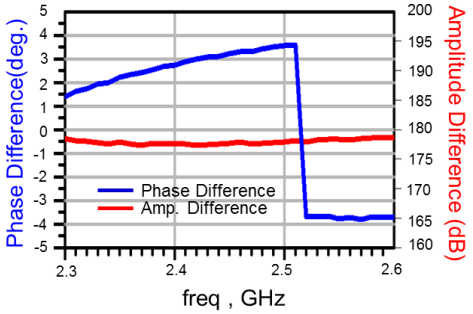




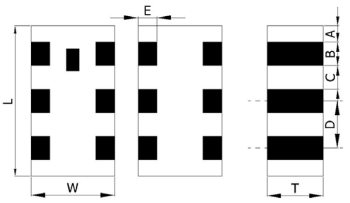
■ **For more information, please contact with local sales representative**

■ **All specifications are subject to change without notice**

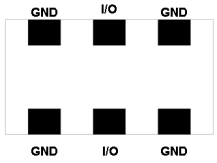
HIGH FREQUENCY MULTILAYER LOW PASS FILTER

■ STRUCTURE AND PIN ASSOCIATED

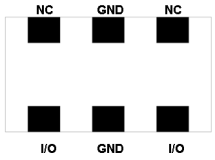
STRUCTURE A



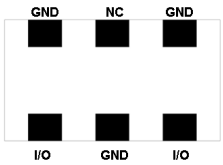
STRUCTURE A-1



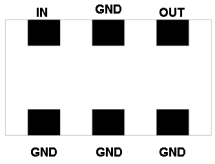
STRUCTURE A-2



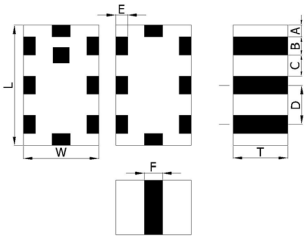
STRUCTURE A-3



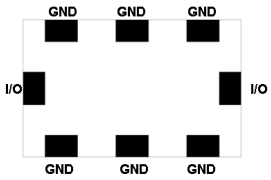
STRUCTURE A-4



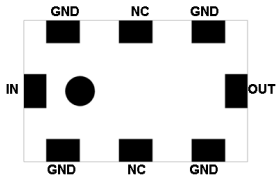
STRUCTURE B



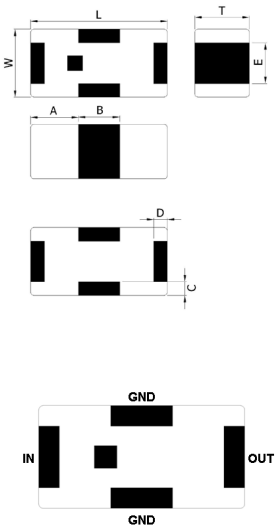
STRUCTURE B-1



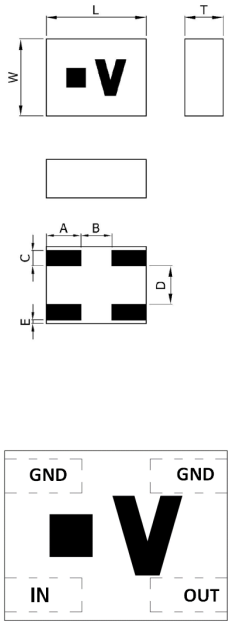
STRUCTURE B-2



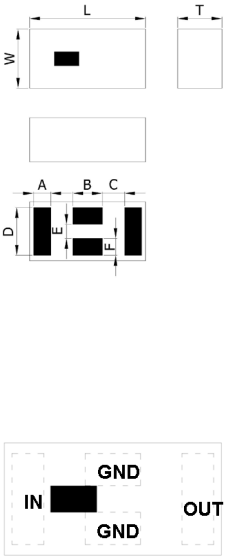
STRUCTURE C



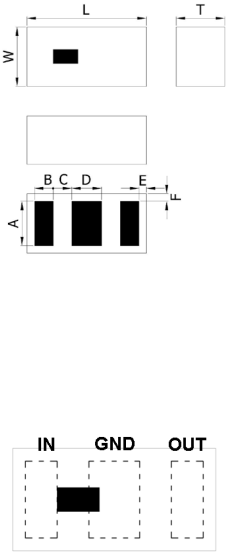
STRUCTURE D



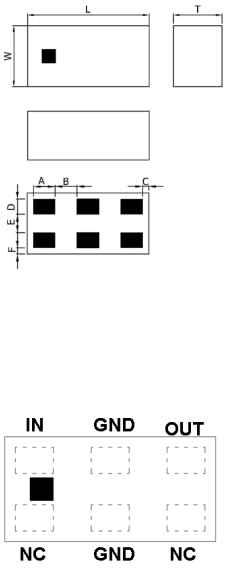
STRUCTURE E



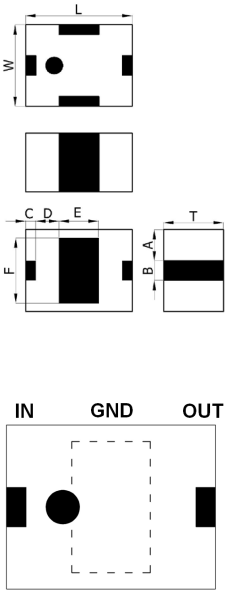
STRUCTURE F



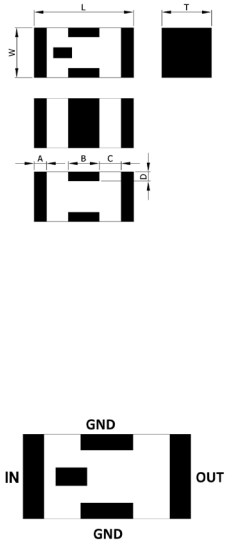
STRUCTURE G



STRUCTURE H



STRUCTURE I



■ STRUCTURE AND DIMENSION

Unit: mm

Structure\Dimension	L	W	T	A	B	C	D	E	F
A	1.60±0.15	0.80±0.15	0.50max.	0.20±0.10	0.24±0.10	0.24±0.10	0.50±0.10	0.15±0.10	-
			0.60±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-
			0.65±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-
			0.70max.	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-
B	2.00±0.15	1.25±0.10	0.90±0.10	0.20±0.10	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.10	0.20±0.10
			0.95±0.10	0.20±0.10	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.10	0.20±0.10
			1.05±0.10	0.20±0.10	0.30±0.10	0.35±0.10	0.65±0.10	0.20±0.10	0.20±0.10
	3.20±0.20	2.50±0.20	1.00±0.20	0.10min.	0.55±0.15	0.45±0.15	1.00±0.15	0.30±0.15	0.70±0.20
C	1.00±0.10	0.50±0.10	0.40±0.10	0.35±0.10	0.30±0.10	0.15±0.10	0.15±0.10	0.30±0.10	-
	1.60±0.15	0.80±0.15	0.50max.	0.45±0.15	0.70±0.15	0.20±0.15	0.20±0.15	0.30±0.15	0.25±0.15
D	0.65±0.10	0.50±0.10	0.40max.	0.225±0.10	0.20±0.05	0.10±0.05	0.25±0.05	0.025±0.25	-
E	1.60±0.15	0.80±0.15	0.65max.	0.23±0.05	0.40±0.10	0.30±0.10	0.65±0.10	0.20±0.05	0.23±0.05
			0.60±0.10	0.23±0.05	0.40±0.10	0.30±0.10	0.65±0.10	0.20±0.05	0.23±0.05
			0.70max.	0.25±0.10	0.40±0.10	0.23±0.10	0.55±0.10	0.21±0.10	0.195±0.10
F	1.60±0.10	0.80±0.10	0.65max.	0.55±0.10	0.25±0.10	00.230.10	0.40±0.10	0.12±0.10	0.125±0.10
				0.60±0.10	0.25±0.10	0.25±0.10	0.40±0.10	0.10±0.05	0.10±0.05
	2.00±0.15	1.25±0.10	0.90±0.10	0.95±0.10	0.275±0.10	0.25±0.10	0.60±0.10	0.175±0.10	0.15±0.10
			1.00max.	0.95±0.10	0.275±0.10	0.25±0.10	0.60±0.10	0.175±0.10	0.15±0.10
G	1.00±0.10	0.50±0.10	0.40 max.	0.18±0.05	0.18±0.05	0.05±0.05	0.125±0.05	0.15±0.05	0.05±0.05
H	3.20±0.20	2.50±0.20	1.00±0.20	0.95±0.20	0.60±0.20	0.30±0.15	0.70±0.15	1.20±0.15	2.00±0.15
			1.80±0.20	0.95±0.20	0.60±0.20	0.30±0.15	0.70±0.15	1.20±0.15	2.00±0.15
I	1.60±0.15	0.80±0.10	0.70±0.10	0.20±0.10	0.50±0.10	0.35±0.10	0.15±0.10	-	-

■ ELECTRICAL SPECIFICATION

GSM850/900GHz BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
RFLPF06050G9D0T	824~915	0.5max.(25℃) 0.7max.(-40~+85℃)	20(2400~2750MHz)	2.0	50	0.65x0.50x0.40	D
RFLPF06050G9D2T	699~960	0.5max.(25℃) 0.7max.(-40~+85℃)	20(2400~2750MHz)	2.0	50	1.00x0.50x0.40	D
RFLPF10050G9D0T	824~915	0.6	25(1648~1830MHz) 25(2472~2745MHz) 25(3296~3660MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF10050G9D3T	824~915	0.5max.(25℃) 0.7max.(-40~+85℃)	25(1648~1830MHz) 25(2472~2745MHz) 25(3296~3660MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF10050G9D4T	699~915	0.5max.(25℃) 0.7max.(-40~+85℃)	25(1648~1830MHz) 25(2472~2745MHz) 25(3296~3660MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF10050G9D58Q1C	814~915	0.5max.(25℃) 0.65max.(-40~+85℃)	18(1648~1830MHz) 17(2472~2745MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF10050G9D9T	698~915	1.2max.(25℃) 1.4max.(-40~+85℃)	30(1396~1830MHz) 30(2094~2745MHz)	2.0	50	1.00x0.50x0.40	G
RFLPF16080G9D4T	698~960	0.60(698~830MHz) 0.70(830~900MHz) 0.75(900~915MHz) 0.90(915~960MHz)	30(1554~1830MHz) 35(2097~2745MHz)	1.6	50	1.60x0.80x0.65	A-3
RFLPF16080G9D9T	690~960	0.9max.(25℃) 1.1max.(-40~+85℃)	20(1350~1920MHz) 48(2070~2880MHz)	1.92	50	1.60x0.80x0.55	E
RFLPF16080G9DA8Q1C	699~960	0.4max.(25℃) 0.6max.(-40~+85℃)	2(1406~1496MHz) 28(1574~1576MHz) 28(1597~1605MHz) 15(1648~1830MHz) 8(2472~2745MHz) 8(3296~3660MHz)	1.5	50	1.60x0.80x0.60	F
RFLPF16080G9DET	698~960	0.4max.(25℃) 0.45max.(-40~+85℃)	15(1574~1605MHz) 23(1648~1830MHz) 23(1805~1850MHz) 23(4944~5850MHz)	2.0	50	1.60x0.80x0.60	E
RFLPF16080G9DJT	434~960	0.6max.(25℃) 0.8max.(-40~+85℃)	25(1554~1610MHz) 30(1710~2700MHz)	2.0	50	1.60x0.80x0.65	A-1
RFLPF16080G9DM1T58	698~960	0.8	16(1565~1610MHz) 32(2110~2155MHz)	2.0	50	1.60x0.80x0.50	A-4
RFLPF20120G9D0T	890~915	0.6max.(25℃) 0.75max.(-40~+85℃)	30(1780~1830MHz) 30(2670~2745MHz)	2.0	50	2.00x1.25x0.95	B-2
RFLPF20120G9D1T	890~915	0.6max.(25℃) 0.75max.(-40~+85℃)	40(1720~1765MHz) 30(1780~1830MHz) 30(2670~2745MHz)	2.0	50	2.00x1.25x0.95	B-2
RFLPF20120G9D8T	863~960	0.7max.(25℃) 0.9max.(-40~+85℃)	46(1726~1856MHz) 50(2589~2784MHz)	2.0	50	2.00x1.25x0.95	B-2

DCS/PCS BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
RFLPF10051G8D0T	1710~1910	0.8	35(3420~3570MHz) 35(3700~3820MHz) 35(5130~5730MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF10051G8DM5T51	1710~1910	0.6	26(3420~3570MHz) 21(3700~3820MHz) 21(5130~5730MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF16081G8D3T	1710~1910	0.45max.(25℃) 0.55max.(-40~+85℃)	30(3420~3570MHz) 25(3700~3820MHz) 25(5130~5730MHz)	2.0	50	1.60x0.80x0.50	C
RFLPF16081G8D78Q1C	1880~2025	1.4	25(2400~2500MHz) 18(4020~4045MHz) 25(6030~6075MHz)	2.0	50	1.60x0.80x0.60	F
RFLPF16081G8DC8Q1C	1880~2170	0.60(1880~1920MHz) 0.70(1920~1980MHz) 0.80(2010~2170MHz) 2.00(2025~2170MHz)	15(2400~2500MHz) 20(3760~4050MHz) 12(5150~5850MHz) 12(5640~6075MHz) 5(7520~8100MHz)	2.0	20	1.60x0.80x0.60	E
RFLPF16081G8DHT	1710~1990	0.6max.(25℃) 0.8max.(-40~+85℃)	30.5(3420~3980MHz) 28.5(5130~5970MHz) 25.0(5970~12500MHz)	2.0	50	1.60x0.80x0.70	I
RFLPF20121G8D1T	1880~2025	1.35max.(25℃) 1.50max.(-40~+85℃)	38(2400~2500MHz) 25(4020~4045MHz) 27(6030~6075MHz)	1.9	50	2.00x1.20x0.90	F

2.4GHz BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
RFLPF0605030A0T	2400~2500	0.40max.(25℃) 0.50max.(-40~+85℃)	26(4800~5000MHz) 28(7200~7500MHz) 11(9600~10000MHz)	1.8	50	1.00x0.50x0.30	D
RFLPF1005040A2T	2400~2500	0.75max.(25℃) 0.90max.(-40~+85℃)	32(4800~5000MHz) 35(7200~7500MHz)	2.0	50	1.00x0.50x0.40	C
RFLPF1608060AAT	2400~2500	0.65	20(3603~3720MHz) 30(4804~4960MHz) 10(6005~6200MHz) 20(7206~7440MHz) 10(8407~8680MHz) 20(9608~9920MHz) 10(10809~11160MHz) 10(12010~12400MHz) 10(13211~13640MHz) 15(14412~14880MHz) 10(15613~16120MHz) 10(16814~17360MHz)	2.0	50	1.60x0.80x0.70	A-1
RFLPF1608060ABT	2400~2500	0.50	35(4800~5000MHz) 25(7200~7500MHz)	2.0	50	1.60x0.80x0.60	A-1
RFLPF1608060A2T	2400~2500	0.42	25(4800MHz) 18(7200MHz)	1.5	50	1.60x0.80x0.60	A-1
RFLPF1608040A7T	2400~2500	0.45max.(25℃) 0.60max.(-40~+85℃)	35(4800~5000MHz) 35(7200~7500MHz)	1.17	50	1.60x0.80x0.40	E
RFLPF1608060A9T	2400~2500	0.50max.(25℃) 0.60max.(-40~+85℃)	20(3400MHz) 20(3600MHz) 30(4800~5000MHz) 30(7200~7500MHz)	2.0	50	1.60x0.80x0.60	E
RFLPF1607A11T	2400~2500	0.5	35(4800~5000MHz) 30(7200~7500MHz)	1.5	50	1.60x0.80x0.65	A-2
RFLPF2012110A0T	2400~2500	0.7	30(2x(fo±BW/2)) 20(3x(fo±BW/2))	1.5	50	2.00x1.25x1.05	B-1
RFLPF2012090A3T	2400~2500	0.5	27(4800~5000MHz) 30(7200~7500MHz)	2.0	50	2.00x1.25x0.95	B-2

5GHz BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
KFLPF1005040K17N3T	5170~7125	0.35	10(10340~14250MHz) 25(15510~21375MHz)	1.65	50	1.00x0.50x0.40	D
RFLPF2012090K0T	4900~5900	0.55(25℃) 0.65(-40~+85℃)	30(9800MHz) 30(11800MHz) 20(17550MHz (for reference)	2.0	50	2.00x1.25x0.90	B-1
RFLPF2012090K3T	5150~5875	0.60(25℃) 0.80(-40~+85℃)	25(10300~11750MHz) 25(15450~17625MHz)	2.0	50	2.00x1.25x0.90	B-2

LTE BAND APPLICATION

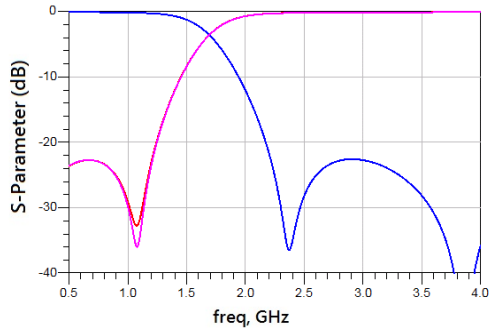
Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
RFLPF1608060Y08Q1C	470~787	0.65(25℃) 0.71(-40~+85℃)	26(1429~1501MHz) 30(1565~1607MHz) 35(1570~1580MHz) 18(1920~1980MHz)	2.0	50	1.60x0.85x0.65	A-3
RFLPF1608060Y18Q1C	698~960	0.60(698~830MHz) 0.70(830~900MHz) 0.75(900~915MHz) 0.90(915~960MHz)	30(1554~1830MHz) 35(2097~2745MHz)	1.6	50	1.60x0.85x0.65	A-3
RFLPF2012090Y2T	400~470	0.50(25℃) 0.65(-40~+85℃)	33(800~940MHz)	2.0	50	2.00x1.25x0.90	F
RFLPF2012090Y3T	500~700	0.65(25℃) 0.80(-40~+85℃)	33(1000~1400MHz)	2.0	50	2.00x1.25x0.90	F
RFLPF2012100Y0T	DC~500	0.70	9(824~960MHz) 25(1710~1990MHz) 25(2400~4000MHz)	2.0	50	2.00x1.25x0.95	B-2
RFLPF1608060F0T	600~2700	0.50	30(4800~8000MHz) 25(8500~12500MHz)	2.0	50	1.60x0.85x0.65	F
RFLPF1608060F18Q1C	673~2690	0.50	35(4950~6000MHz) 35(6000~7500MHz) 35(7500~8100MHz) 35(8100~10500MHz) 27(10500~12500MHz)	2.0	50	1.60x0.85x0.65	F
RFLPF1608060F6T	1700~2700	0.50(1700~2170MHz) 0.65(2170~2500MHz) 0.90(2500~2700MHz)	20(3400MHz) 22(3400~5400MHz) 25(5400~8100MHz)	2.0	50	1.60x0.85x0.60	E
RFLPF1608060F88Q1C	10~2700	0.5	30(4900~5950MHz)	2.0	50	1.60x0.85x0.65	E
RFLPF1608060FAT	673~2690	0.25(25℃) 0.35(-40~+85℃)	25(4905~5845MHz)	1.92	50	1.60x0.85x0.65	F
RFLPF1606F15T	1700~2700	0.50(1700~2170MHz) 0.65(2170~2500MHz) 0.90(2500~2700MHz)	13(3300~3420MHz) 23(3420~3800MHz) 23(3800~5000MHz) 25(5150~5960MHz)	2.0	50	1.60x0.85x0.60	E
RFLPF1606F16T	600~2700	0.85(25℃) 1.05(-40~+85℃)	38(3420~3570MHz) 27(5150~5960MHz)	2.0	50	1.60x0.85x0.60	E
RFLPF2012100F18Q1C	1710~2170	1.30(25℃) 1.50(-40~+85℃)	15(2400~2500MHz) 25(3250~3350MHz) 25(3420~3570MHz) 23(3700~3820MHz) 23(3840~3960MHz) 23(4100~4600MHz) 25(4905~5845MHz) 23(5850~6400MHz) 20(6600~7350MHz)	1.56	50	2.00x1.25x1.00	B-2
RFLPF2012100F28Q1C	DC~2170	0.75(25℃) 0.85(-40~+85℃)	10(2400~2500MHz) 23(3250~3350MHz) 20(3420~3570MHz) 18(3700~3820MHz) 18(3840~3960MHz) 18(4100~4600MHz) 20(4905~5845MHz) 18(5850~6400MHz) 5(6600~7350MHz)	2.0	50	2.00x1.25x1.00	F
RFLPF16082G6W0T	2400~2690	0.6	26(4800~5390MHz) 23(7200~8085MHz)	2.0	50	1.60x0.80x0.60	A-2
RFLPF16082G5W0T	2300~2700	0.90(25℃) 1.00(-40~+85℃)	30(4600~5400MHz) 30(6900~8100MHz) 20(9200~10800MHz) 15(11500~13500MHz)	1.8	50	1.60x0.80x0.60	A-1
RFLPF16082G5WM0T29	2300~2690	0.80 (typ.0.40)	25(4600~5400MHz) 25(6900~8070MHz)	2.0	50	1.60x0.80x0.60	A-1
RFLPF16083G5W7T	3300~3800	0.55	17(6600~7600MHz) 20(9900~11400MHz)	1.9	50	1.60x0.80x0.60	A-3
RFLPF2012090BM0T29	800~1000 1700~1910 2010~2025	0.5(800~1000MHz) 0.8(1700~1910MHz) 1.5(2010~2025MHz)	20(2300~3700MHz) 30(3700~4100MHz) 20(4100~6100MHz) 10(6100~8000MHz)	2.0	50	2.00x1.25x0.90	F

MoCA APPLICATION

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Impedance (Ω)	Size(mm)	Structure
RFLPF3225180Y1T	54~870	2.5	35(975~1675MHz)	2.0	75	3.20x2.50x1.80	H
RFLPF3225100Q07B1U	5~1002	2.4(25℃) 2.6(-40~+85℃)	36(1125~1675MHz)	2.0	75	3.20x2.50x1.00	H
RFLPF3225100Q2T	5~1002	2.4(25℃) 2.6(-40~+85℃)	28(1125~1675MHz)	1.9	75	3.20x2.50x1.00	B-1
RFLPF3225200Q5T	5~1002	1.8(25℃) 2.05(-40~+85℃)	33(1125~1400MHz) 26(1400~1675MHz)	2.0	75	3.20x2.50x1.80	H
RFLPF3225200QFT	5~1218	2.3(25℃) 2.55(-40~+85℃)	20(1350~1400MHz) 31(1400~1675MHz)	2.0	75	3.20x2.50x1.80	H

■ TYPICAL ELECTRICAL CHARACTERISTICS

RFLPF06050G9D0T



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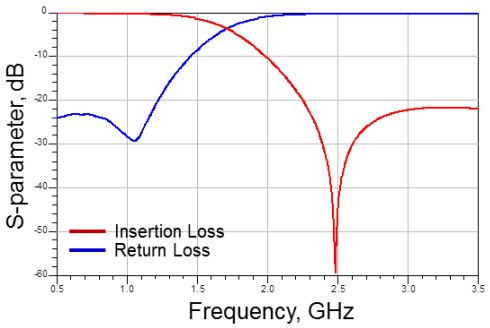

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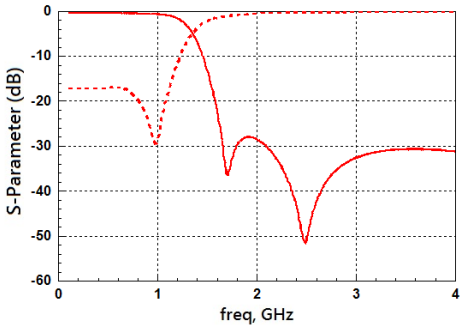

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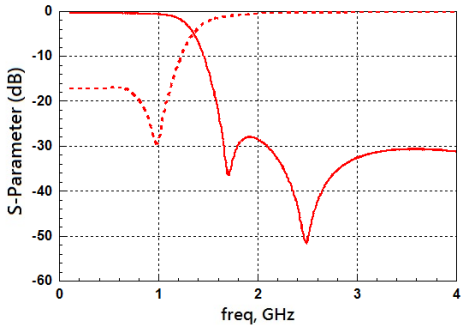

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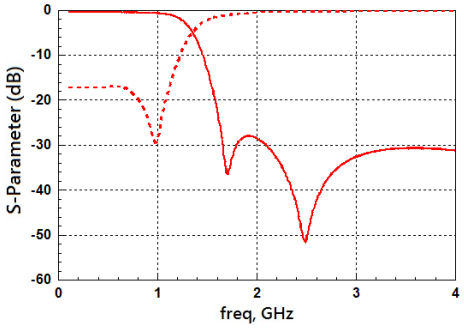

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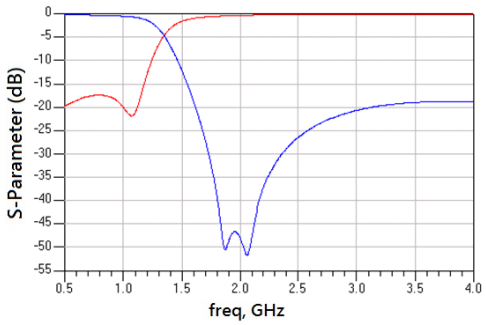

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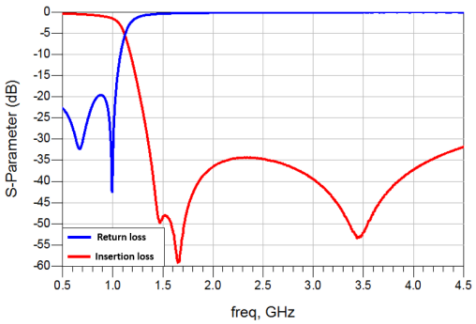

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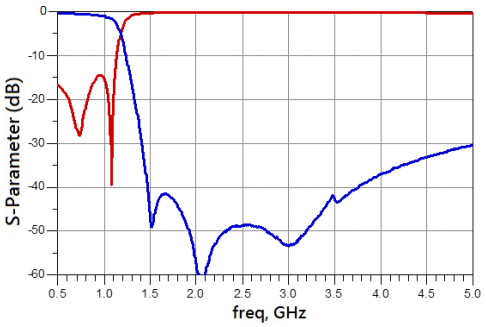

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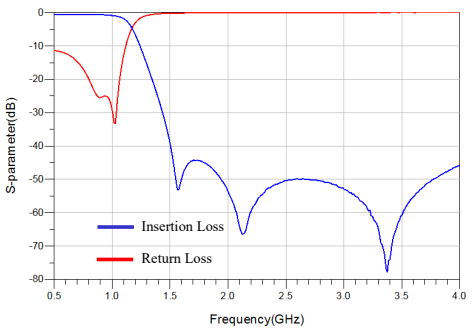

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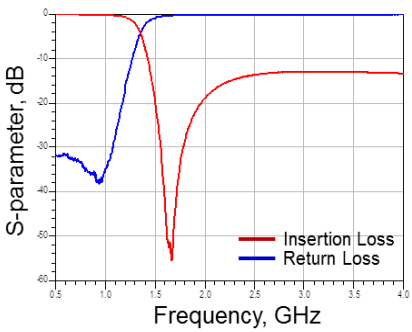
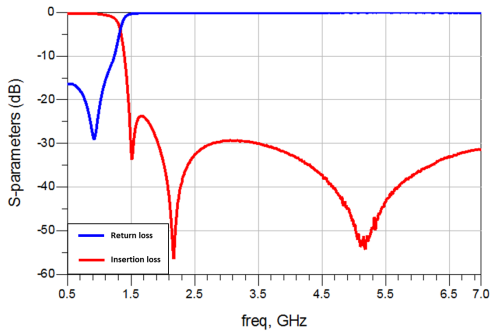


TYPICAL ELECTRICAL CHARACTERISTICS

RFLPF16080G9DET



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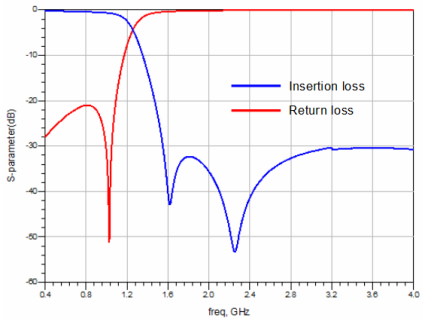

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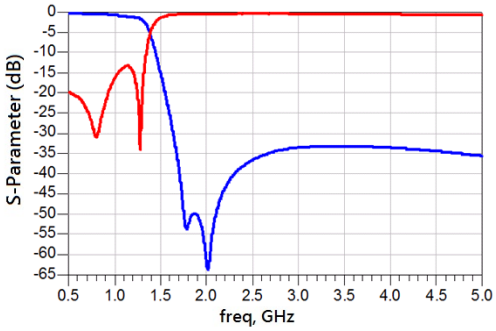

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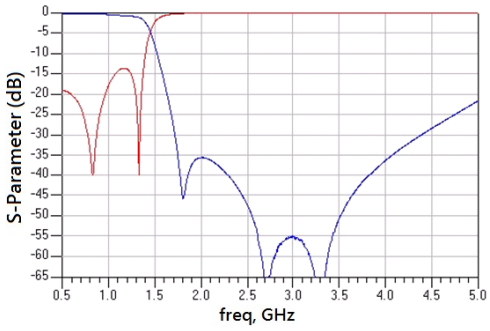

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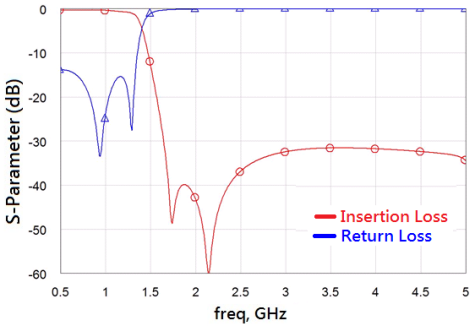

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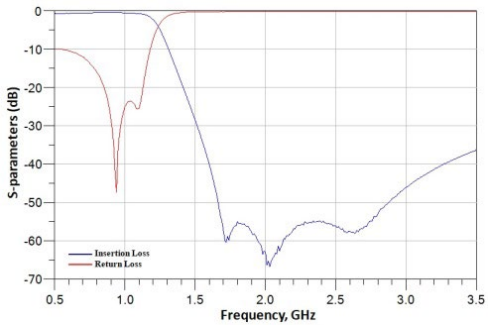

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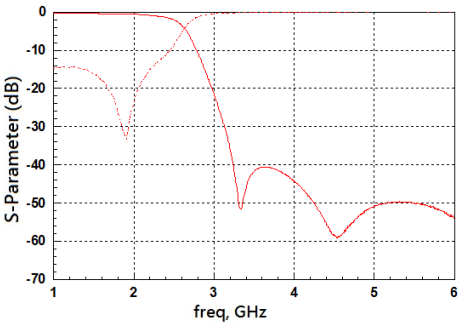

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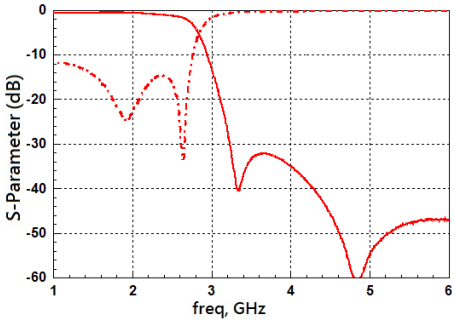

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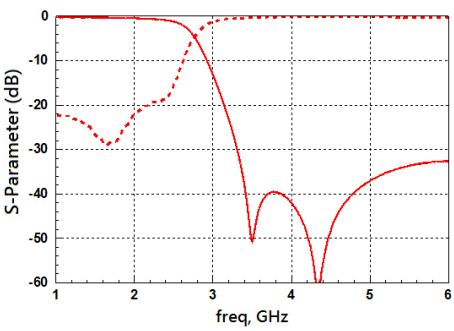

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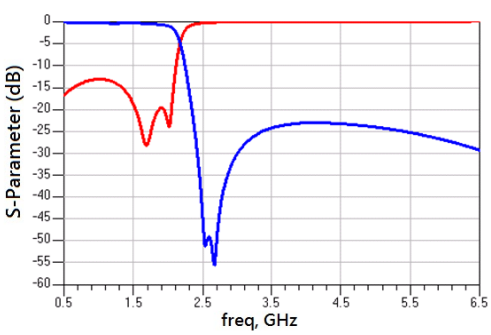

TYPICAL ELECTRICAL CHARACTERISTICS

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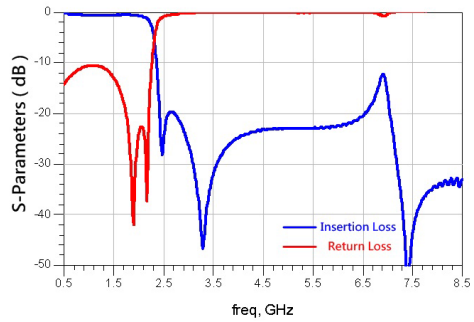

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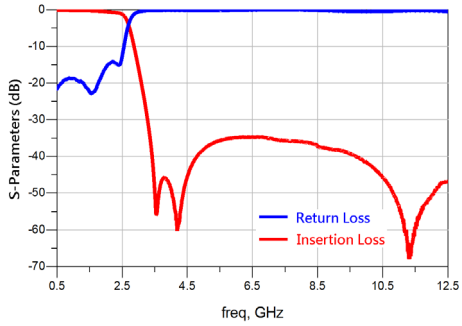

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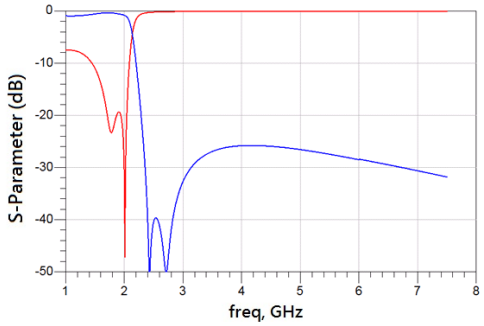

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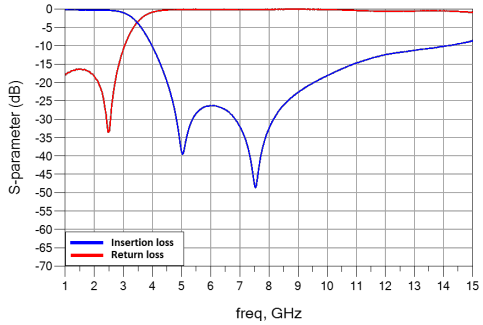

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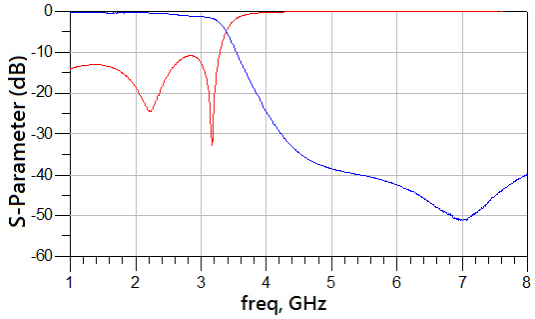

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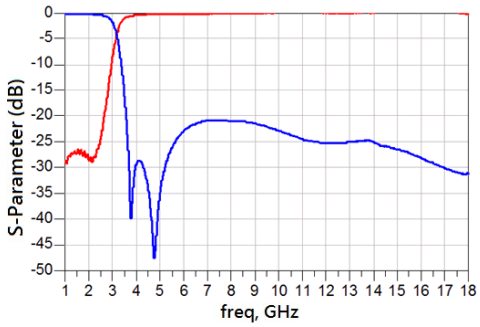

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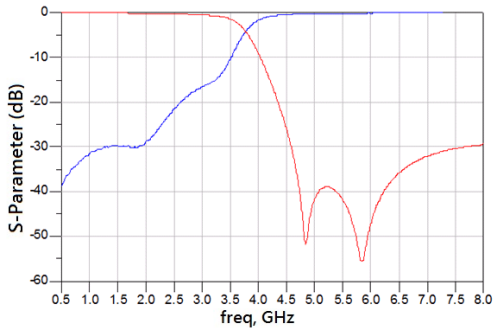

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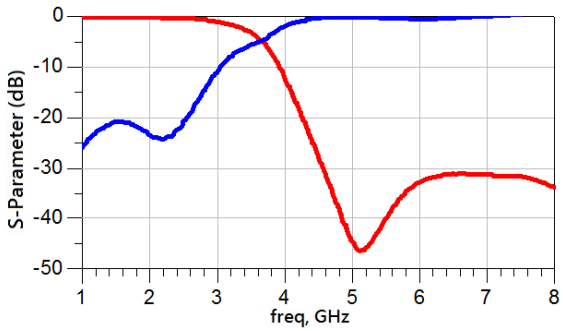

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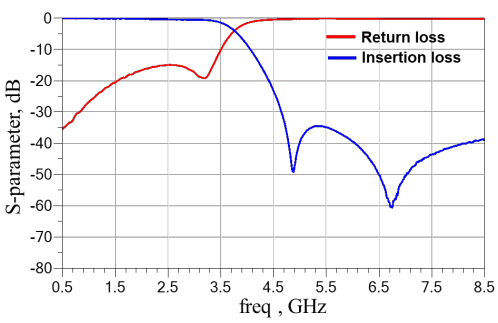

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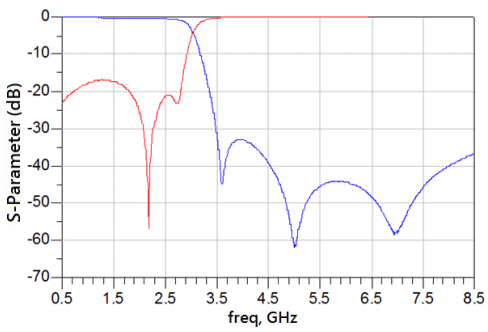

TYPICAL ELECTRICAL CHARACTERISTICS

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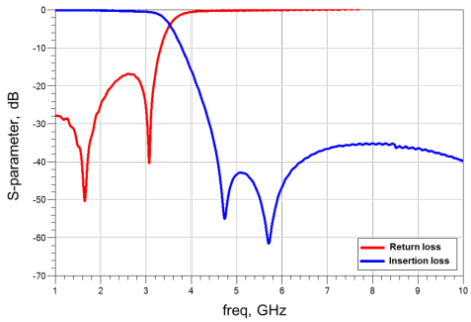

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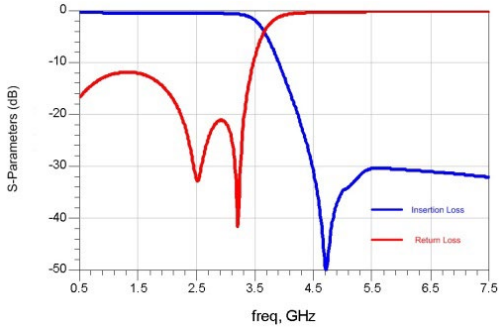

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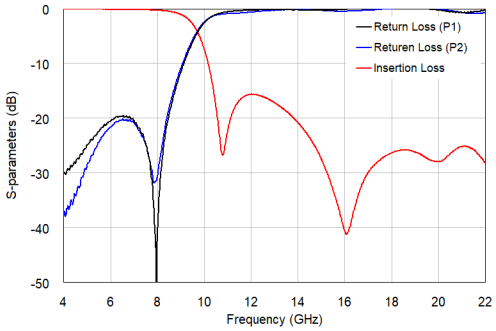

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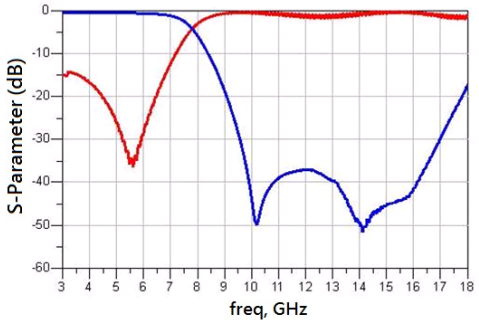

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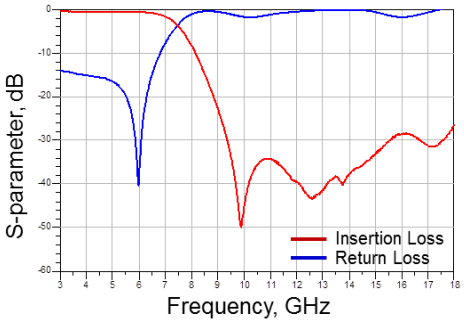

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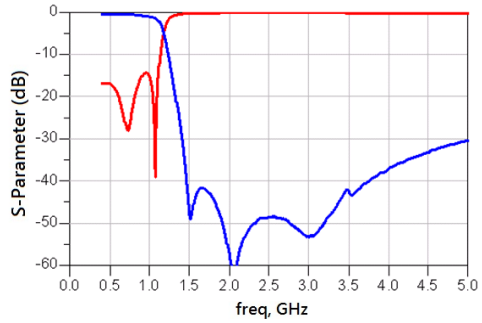

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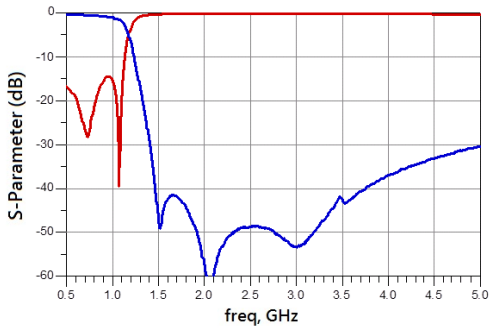

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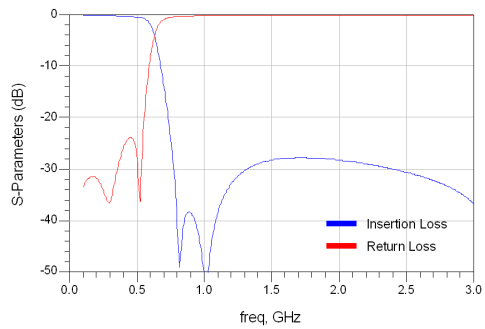

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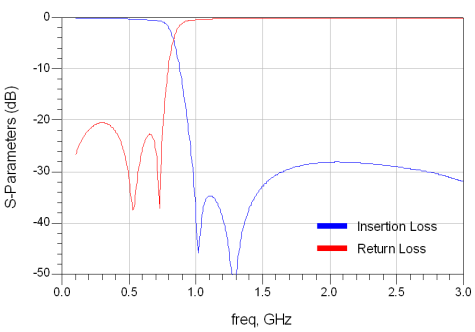

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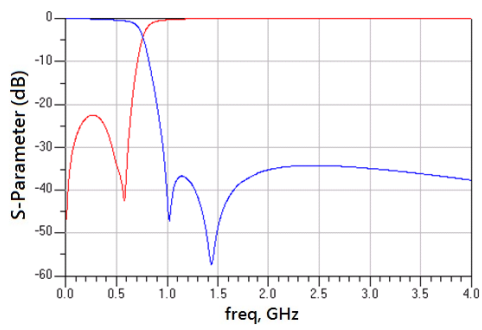

TYPICAL ELECTRICAL CHARACTERISTICS

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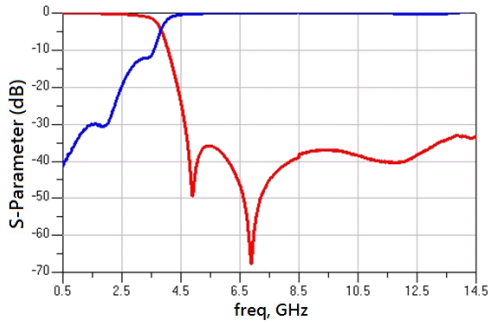

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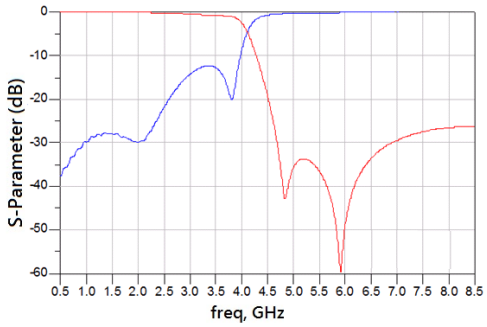

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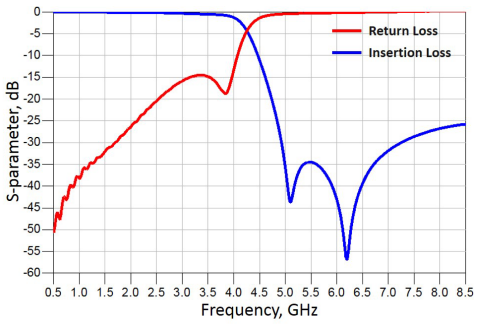

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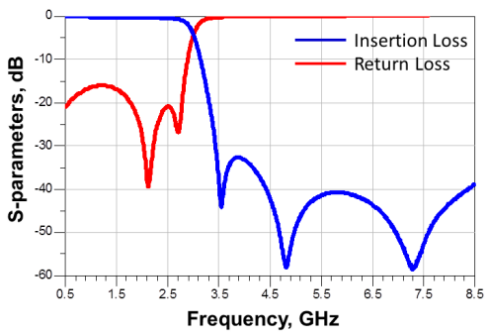

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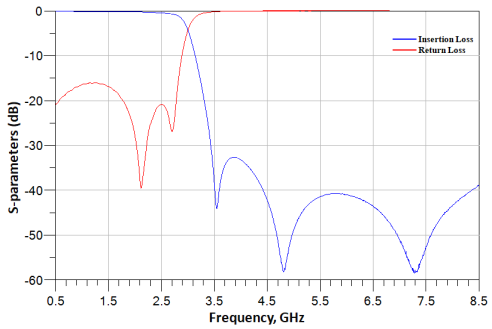

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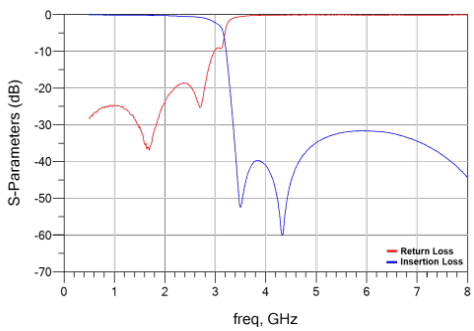

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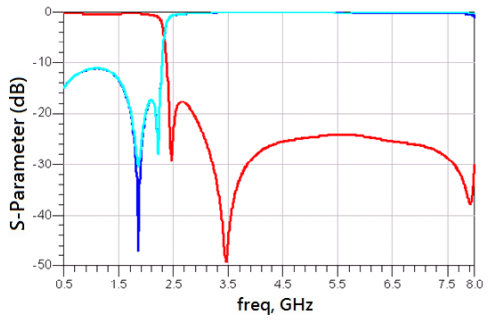

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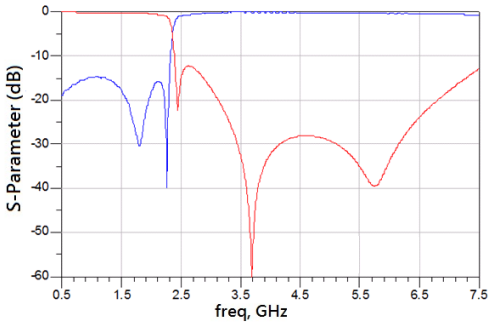

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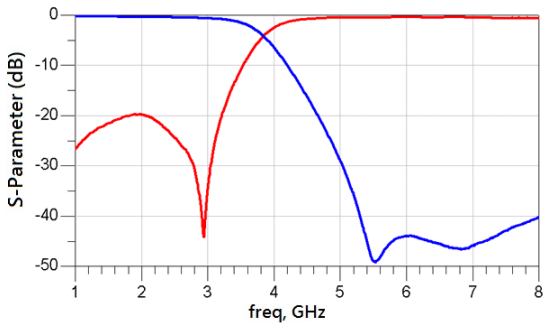

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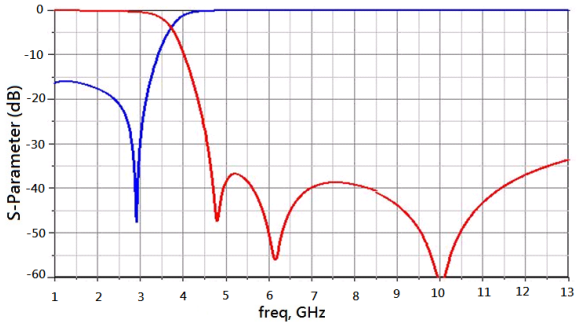

TYPICAL ELECTRICAL CHARACTERISTICS

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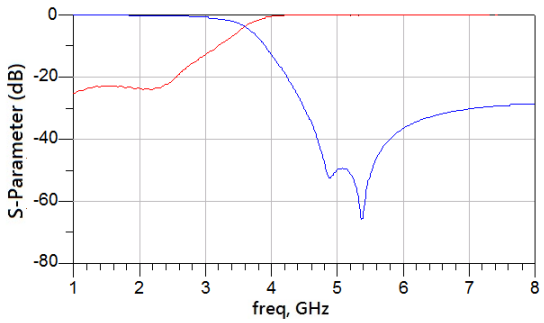

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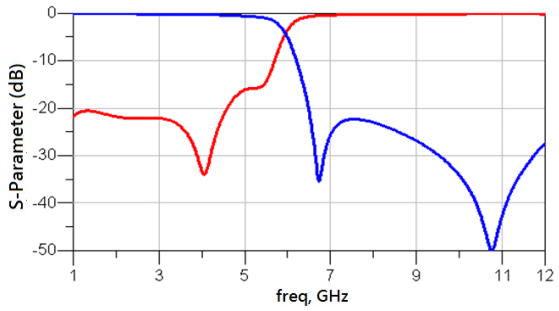

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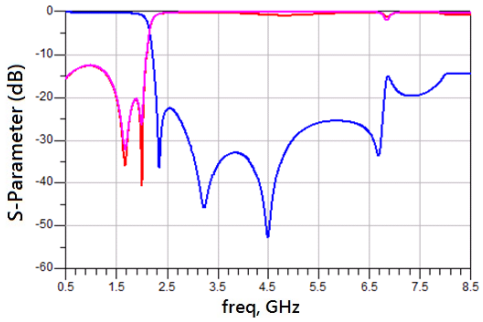

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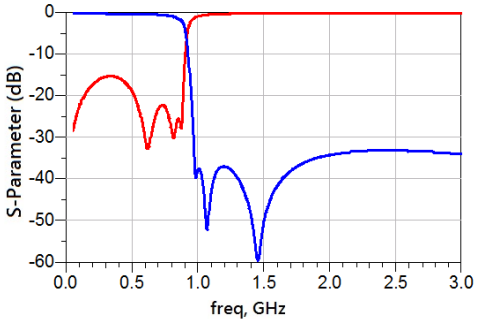

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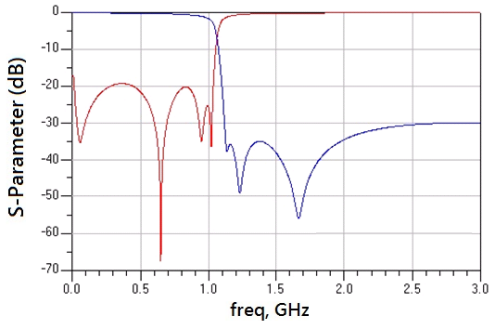

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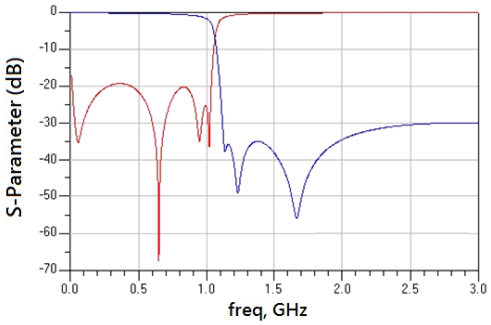

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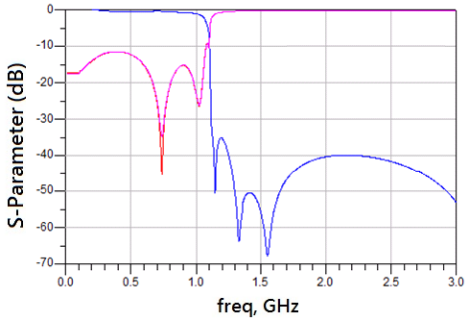

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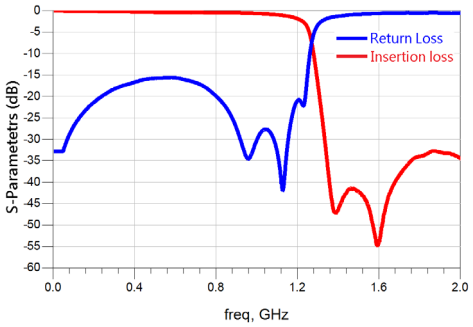
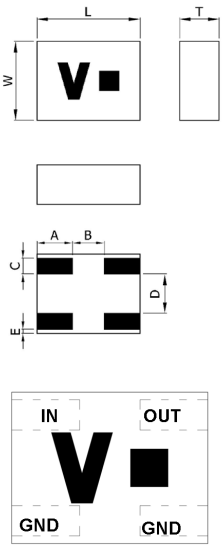
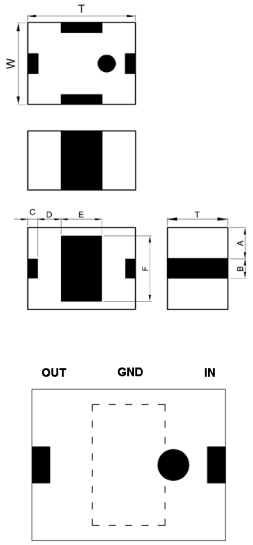
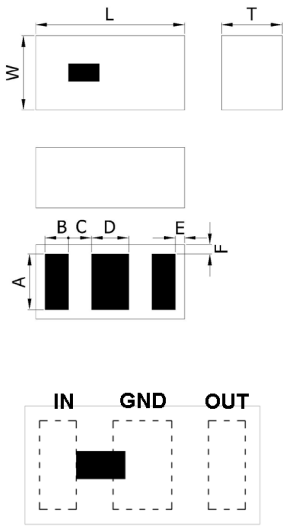
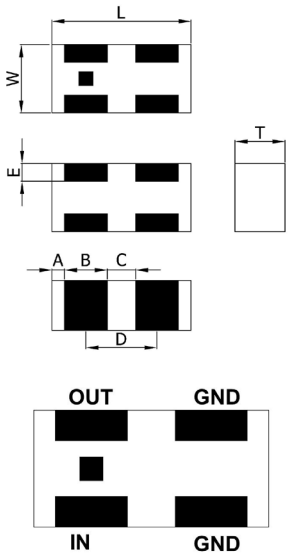


- For more information, please contact with local sales representative
- All specifications are subject to change without notice

HIGH FREQUENCY MULTILAYER HIGH PASS FILTER

■ STRUCTURE AND PIN ASSOCIATED

STRUCTURE A	STRUCTURE B	STRUCTURE C	STRUCTURE D
			

■ STRUCTURE AND DIMENSION

Unit: mm

Structure\ Dimension	L	W	T	A	B	C	D	E	F
A	0.65 ± 0.10	0.50 ± 0.10	0.4 max.	0.225 ± 0.10	0.20 ± 0.05	0.10 ± 0.10	0.20 ± 0.05	0.05 ± 0.05	-
B	3.20 ± 0.20	2.50 ± 0.20	1.7 max.	0.95 ± 0.20	0.60 ± 0.20	0.30 ± 0.15	0.70 ± 0.15	1.20 ± 0.15	2.00 ± 0.15
C	1.60 ± 0.10	0.80 ± 0.10	0.65 max.	0.65 ± 0.10	0.25 ± 0.10	0.275 ± 0.10	0.40 ± 0.10	0.075 ± 0.05	0.075 ± 0.05
D	1.00 ± 0.10	0.50 ± 0.10	0.42 max.	0.10 ± 0.10	0.30 ± 0.10	0.20 ± 0.10	0.50 ± 0.10	0.125 ± 0.10	-

■ ELECTRICAL SPECIFICATION

2496 ~ 2690 MHz BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Size (mm)	Structure
RFHPF16082G5W1T	2496~2690	0.9max.(25℃) 1.2max.(-40~+85℃)	22(1710~2010MHz)	2.0	1.6 X 0.8 X 0.6	C
RFHPF16082G5W3T	2300~2690	1.45max.(25℃) 1.65max.(-40~+85℃)	20(1710~1980MHz)	2.0	1.6 X 0.8 X 0.6	C

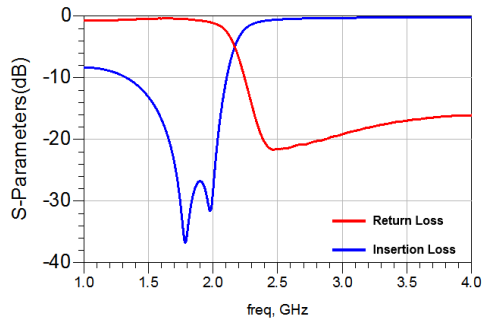
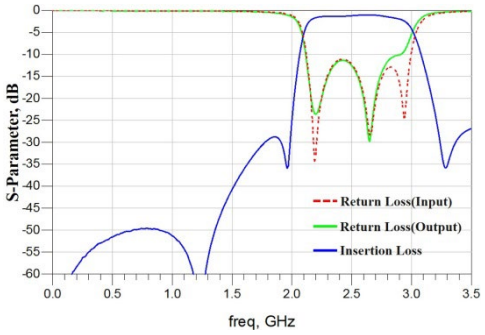
5GHz BAND WORKING FREQUENCY

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Size (mm)	Structure
RFHPF0605040K0T	4900~5840	0.60max.(25℃) 0.65max.(-40~+85℃)	14(2400~2500MHz)	1.6	0.65 X 0.5 X 0.4	A
RFHPF0605040K3T	4900~6000	0.65max.(25℃) 0.75max.(-40~+85℃)	20(2400~2500MHz)	2.0	0.65 X 0.5 X 0.4	A
RFHPF1005040K0T	5150~5950	6.0(5150~5250MHz) 3.0(5250~5350MHz) 1.3(5500~5950MHz)	10(4800~4960MHz)	2.0	1.00 X 0.5 X 0.4	D

MoCA Application

Part Number	Frequency Range (MHz)	Insertion Loss (dB)	Attenuation (dB min.)	VSWR (max.)	Size (mm)	Structure
RFHPF3225170F07B1U	950~2150	2.00max.(25℃) 2.2max.(-40~+85℃)	50(475~675MHz)	2.0	3.2 X 2.5 X 1.7	B

■ TYPICAL ELECTRICAL CHARACTERISTICS

RFHPF16082G5W1T	RFHPF16082G5W3T
	
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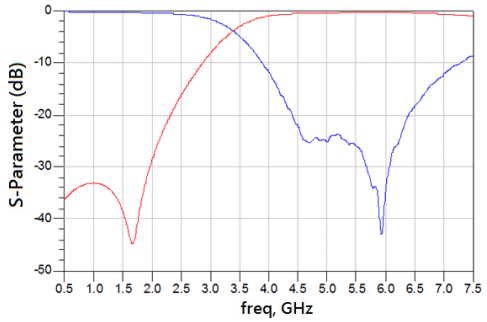	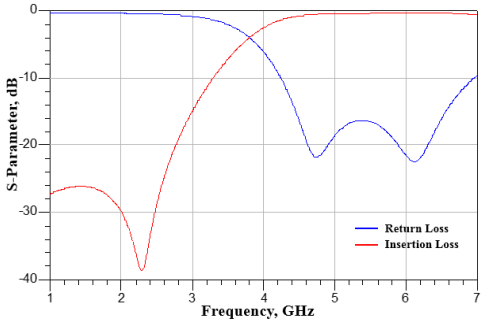
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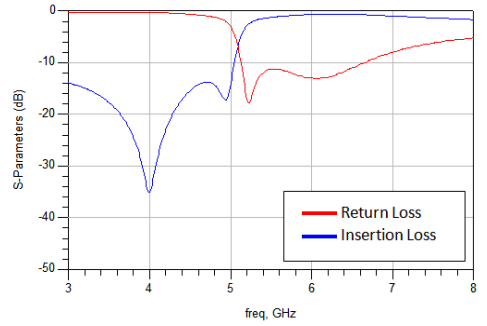
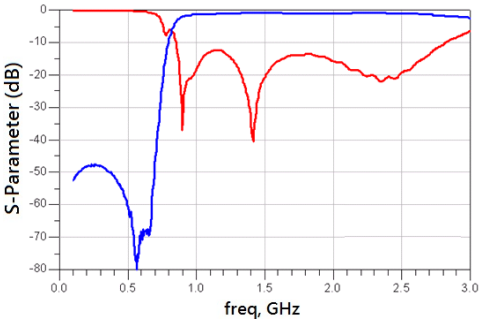
	

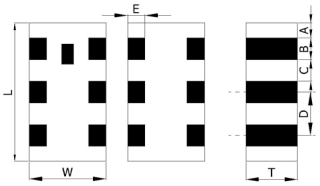
■ For more information, please contact with local sales representative

■ All specifications are subject to change without notice

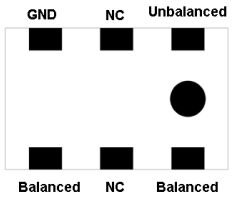
BALUN TRANSFORMERS

■ STRUCTURE AND PIN ASSOCIATED

STRUCTURE A



STRUCTURE A-1



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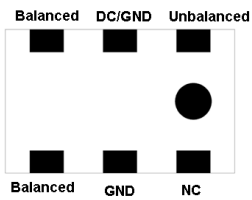

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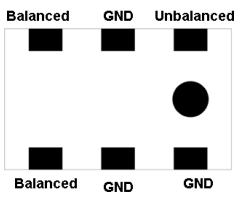
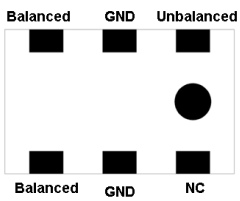
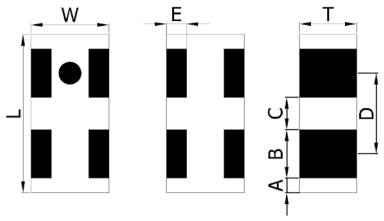


STRUCTURE A-4



STRUCTURE B



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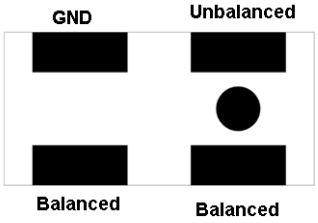
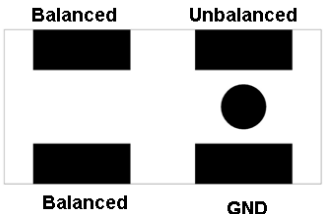
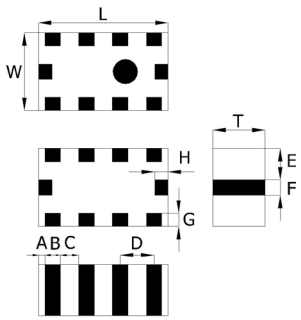


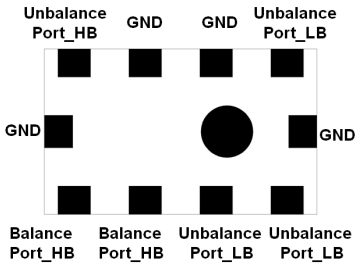
STRUCTURE B-2



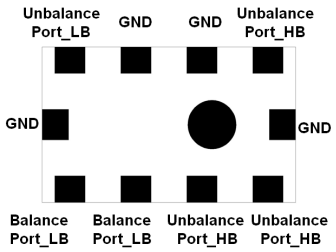
STRUCTURE C



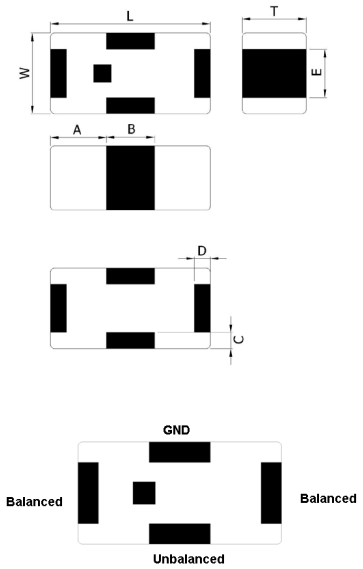
STRUCTURE C-1



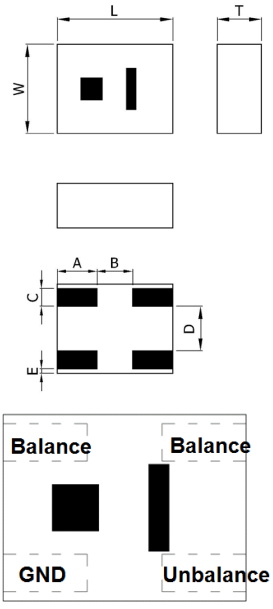
STRUCTURE C-2



STRUCTURE D



STRUCTURE E



■ STRUCTURE AND DIMENSION

Unit: mm

Structure\ Dimension	L	W	T	A	B	C	D	E	F	G	H
A	1.60±0.10	0.85±0.10	0.70±0.10	0.20±0.10	0.20±0.10	0.30±0.10	0.50±0.05	0.50±0.05	-	-	-
	1.60±0.15	0.80±0.10	0.50±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-	-	-
		0.85±0.10	0.40 max.	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-	-	-
			0.60±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-	-	-
		0.85±0.15	0.70±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	-	-	-	-
			0.65±0.10								
	2.00±0.15	1.25±0.15	0.80±0.10	0.20±0.20	0.30±0.20	0.35±0.20	0.65±0.20	-	-	-	-
			0.85±0.10	0.20±0.20	0.30±0.20	0.35±0.20	0.65±0.20	-	-	-	-
			0.80±0.10	0.20±0.15	0.30±0.20	0.35±0.20	0.65±0.20	-	-	-	-
			0.95±0.10	0.20±0.20	0.30±0.20	0.35±0.20	0.65±0.20	-	-	-	-
B	1.00±0.10	0.50±0.10	0.37±0.10	0.10±0.10	0.30±0.10	0.20±0.10	0.50±0.10	0.125±0.10	-	-	-
	1.00±0.10	0.50±0.10	0.40±0.10	0.10±0.10	0.30±0.10	0.20±0.10	0.50±0.10	0.125±0.10	-	-	-
C	2.00±0.10	1.25±0.15	0.90±0.10	0.125±0.10	0.25±0.10	0.25±0.10	0.50±0.10	0.475±0.10	0.30±0.10	0.20±0.15	0.20±0.15
D	1.00±0.10	0.50±0.10	0.5 max.	0.35±0.10	0.30±0.10	0.15±0.10	0.15±0.10	0.30±0.10	-	-	-
E	0.65±0.10	0.50±0.10	0.40±0.10	0.20±0.05	0.20±0.05	0.025±0.025	0.10±0.05	0.25±0.05	0.025±0.025	-	-

■ ELECTRICAL SPECIFICATION

ISM Band 2.4GHz APPLICATION

Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB) Min.	Insertion Loss (dB)	Amplitude Difference (dB) Max.	Phase Difference	Size(mm)	Structure
		Unbalance	Balance						
RFBLN1608050AM8T62	2400~2500	50	50	10	1.2	2.0	180± 10	1.60x0.80x0.50	A-2
RFBLN1608050AM0T63	2400~2500	50	50	10	1.0	1.0	180± 10	1.60x0.80x0.55	A-2
RFBLN1608060AC6T40	2400~2500	50	Conjugate match to TI CC26XX Chipset	10	1.6(25℃) 1.8(-40~+85℃)	2.3	180± 18	1.60x0.80x0.60	A-3
RGBLN1608070A5T	2400~2500	50	100	10	1.2	2.0	180± 10	1.60x0.80x0.70	A-2
RGBLN2012080A5T	2400~2500	50	50	12	1.0	1.0	180± 10	2.00x1.25x0.85	A-2
RFBLN2012090A1T	2400~2500	50	100	10	1.0	2.0	180± 10	2.00x1.25x0.95	A-2

ISM Band 5GHz APPLICATION

Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB) Min	Insertion Loss (dB)	Amplitude Difference (dB) Max.	Phase Difference	Size (mm)	Structure
		Unbalance	Balance						
RFBLN1005040K5T	4900~5950	50	100	10	0.55(25℃) 0.75(-40~+85℃)	2.5	180± 10	1.00x0.50x0.40	B-2
RFBLN2012090K1T	4900~5900	50	100	10	1.2	2.0	180± 10	2.00x1.25x0.95	A-4

LTE Band APPLICATION

Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB)Min	Insertion Loss (dB)	Amplitude Difference (dB) Max.	Phase Difference	Size (mm)	Structure
		Unbalance	Balance						
RFBLN0605040YM9T16	729~821	50	100	10	0.55(25℃) 0.65(-40~+85℃)	2.0	180± 10	0.65x0.50x0.40	E
RFBLN06050G9D0T	729~960	50	100	15	0.85(25℃) 0.95(-40~+85℃)	4.8	180± 10	0.65x0.50x0.40	E
RFBLN16080G9D2T	699~960	50	100	10	1.05(25℃) 1.15(-40~+85℃)	2.5	180± 15	1.60x0.80x0.70	A-4
RFBLN20120G9D1T	824~894	50	50	10	1.4	1.0	180± 10	2.00x1.25x0.90	A-2
RFBLN20120G9D4T	880~960	50	50	10	1.3(25℃) 1.4(-40~+85℃)	1.0	180± 10	2.00x1.25x0.90	A-2
RFBLN20120G9D5T	880~960	50	100	10	1.1	1.0	180± 10	2.00x1.25x0.90	A-2
RFBLN20120G9D8T	800~1000	50	50	10	1.2	2.0	180± 10	2.00x1.25x0.90	A-2
RFBLN06051G8DM1T69	1805~1990	50	100	10	0.60(25℃) 0.65(-40~+85℃)	1.8	180± 10	0.65x0.50x0.40	E
RFBLN06051G8D1T	1805~2170	50	100	10	0.65(25℃) 0.70(-40~+85℃)	3.0	180± 15	0.65x0.50x0.40	E
RFBLN10051G9D1T	1805~1990	50	100	10	0.60(25℃) 0.70(-40~+85℃)	2.2	180± 12	1.00x0.50x0.40	B-2

LTE Band APPLICATION

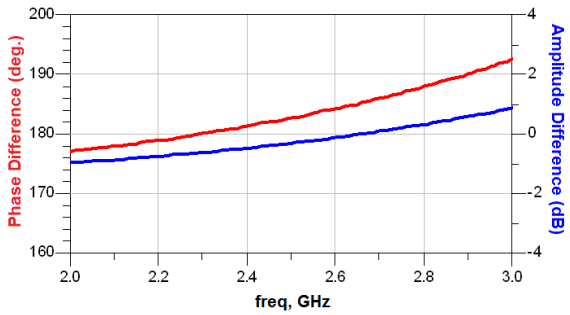
Part Number	Frequency Range (MHz)	Impedance(Ω)		Return Loss (dB)Min	Insertion Loss (dB)	Amplitude Difference (dB) Max.	Phase Difference	Size (mm)	Structure
		Unbalance	Balance						
RFBLN1005040F0T	1805~2170	50	100	10	0.70(25℃) 0.80(-40~+85℃)	1.2	180± 15	1.00x0.50x0.40	D
RFBLN1608070F48Q1C	673~2700	50	100	10	1.7(25℃) 2.0(-40~+85℃)	1.5	180± 17	1.60x0.80x0.70	A-4
RFBLN1608060FET	1710~2200	50	50	10	1.20(25℃) 1.40(-40~+85℃)	2.0	180± 10	1.60x0.80x0.60	A-2
RFBLN2012090E0T	1500~3000	50	100	10	1.0	2.0	180± 10	2.00x1.25x0.90	A-4
RFBLN06052G5WM9T16	2300~2690	50	100	10	0.55(25℃) 0.65(-40~+85℃)	2.5	180± 10	0.65x0.50x0.40	E
RFBLN16082G5W0T	2300~2700	50	100	10	1.1	2.0	180± 10	1.60x0.80x0.70	A-2
RFBLN16082G5W38Q1C	2300~2700	50	100	10	0.55(25℃) 0.65(-40~+85℃)	1.0	180± 10	1.60x0.80x0.40	A-4
RFBLN16082G5W4T	2300~2700	50	50	10	1.2	2.0	180± 10	1.60x0.80x0.50	A-2

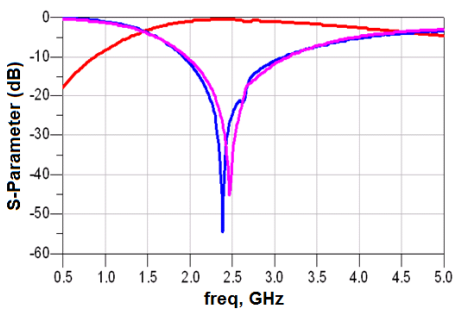
GSM 850/ GSM 900/ DCS1800/ PCS1900 APPLICATION

Part Number	Frequency Range (MHz)	Unbalance	Balance	Return Loss (dB) Min	Insertion Loss (dB)	Amplitude Difference (dB) Max	Attenuation (dB min.)	Phase Difference	Size(mm)	Structure
RFBLN2012090BM5T25	869~960	50	200	10	1.1	2.0	10(1738~1920MHz) 20(2400~2500MHz) 20(2607~2880MHz)	180± 10	2.00x1.25x0.95	C-1
	1805~2025	50	200	10	1.8	2.0	15(2400~2500MHz) 20(3610~3980MHz) 20(5415~5970MHz)	180± 15		
RFBLN2012090BS0T53	869~960	50	200	10	1.1(25℃) 1.3(-40~+85℃)	2.0	10(1738~1920MHz) 20(2400~2500MHz) 20(2607~2880MHz)	180± 15	2.00x1.25x0.95	C-1
	1805~1990	50	200	10	1.6(25℃) 1.8(-40~+85℃)	2.0	15(2400~2500MHz) 15(3610~3980MHz) 20(5415~5970MHz)	180± 15		
RFBLN2012090BS0T50	869~960	50	200	10	1.1(25℃) 1.3(-40~+85℃)	2.0	10(1738~1920MHz) 20(2400~2500MHz) 20(2607~2880MHz)	180± 15	2.00x1.25x0.95	C-2
	1805~2025	50	200	10	1.8(25℃) 2.0(-40~+85℃)	2.0	15(2400~2500MHz) 15(3610~3980MHz) 20(5415~5970MHz)	180± 15		

■ TYPICAL ELECTRICAL CHARACTERISTICS

RFBLN1608050AM8T62





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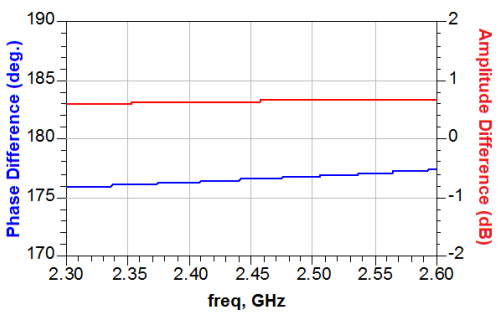

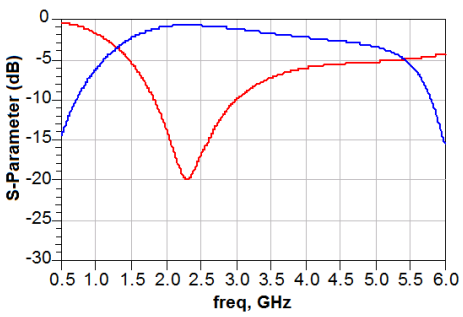

TYPICAL ELECTRICAL CHARACTERISTICS

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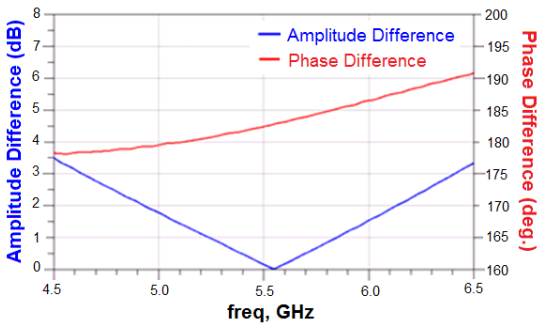

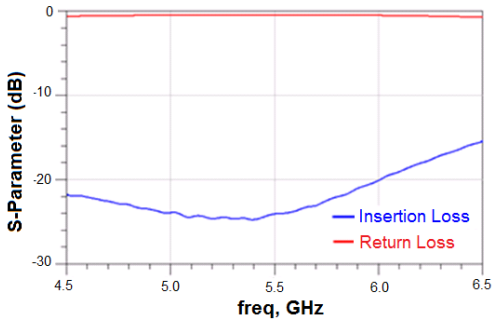

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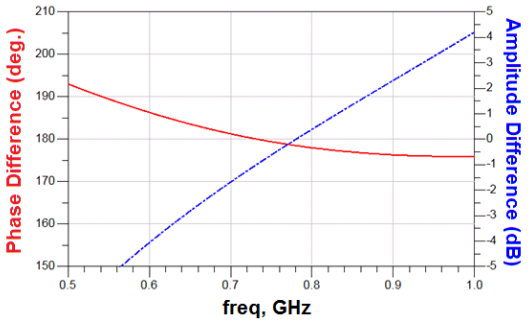

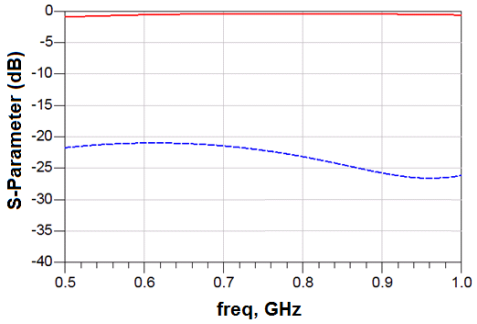

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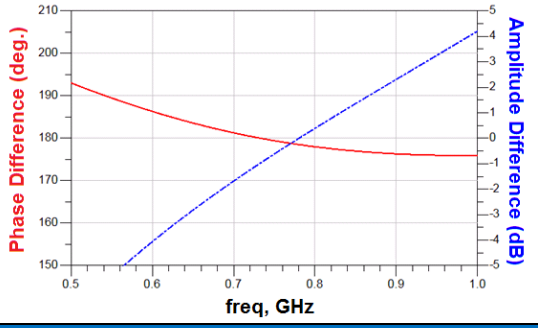

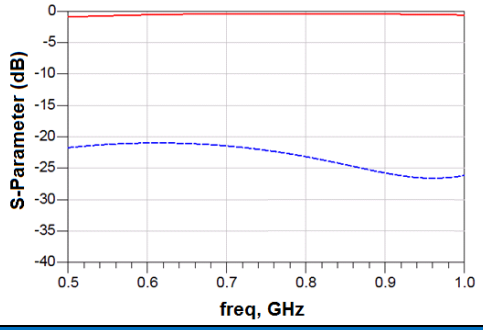

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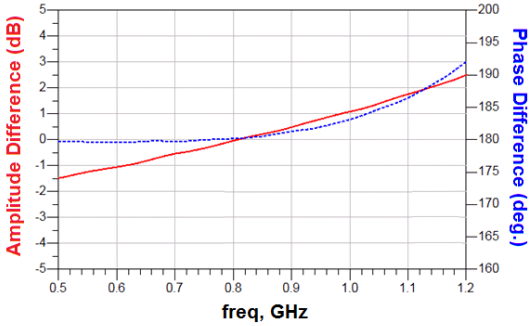

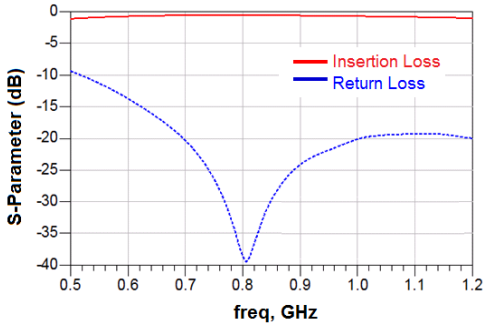

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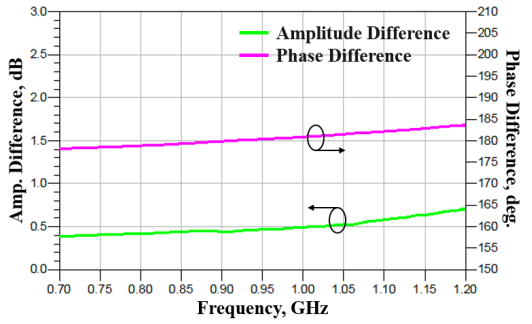
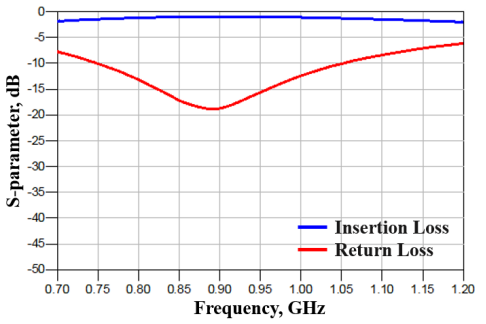
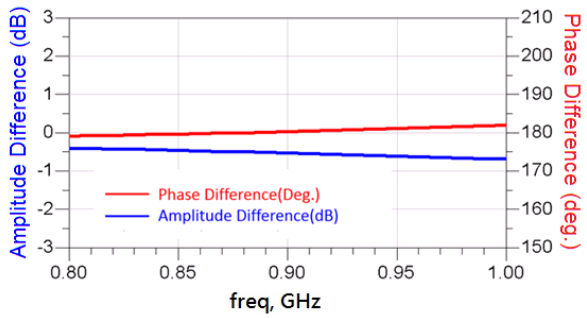
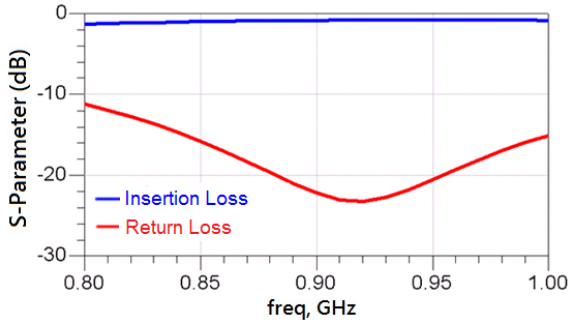




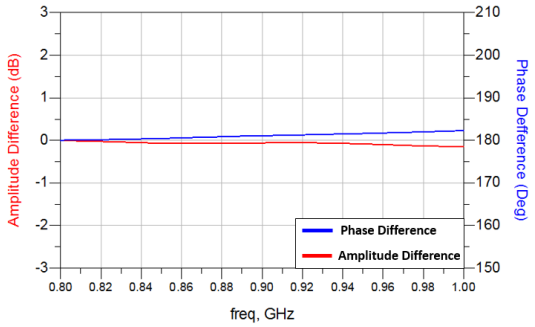
TYPICAL ELECTRICAL CHARACTERISTICS

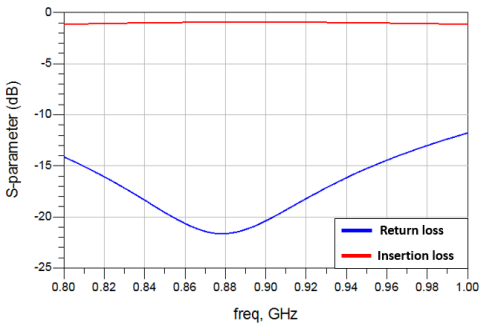
RFBLN20120G9D5T





RFBLN20120G9D8T





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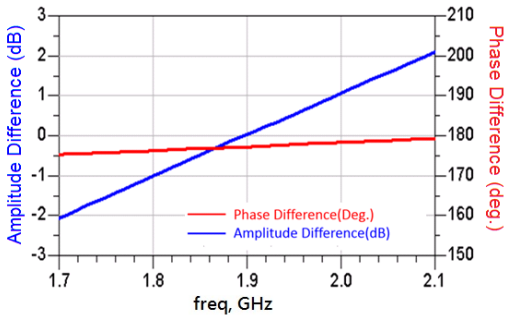

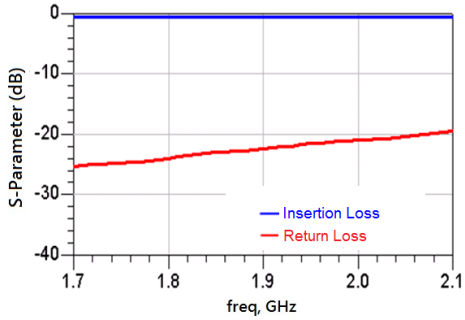

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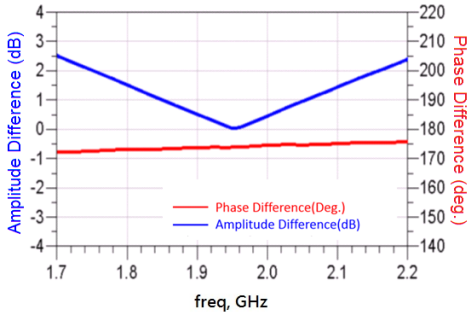

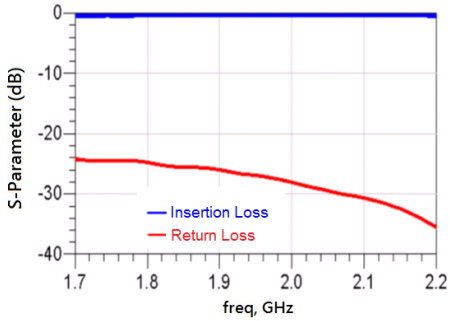

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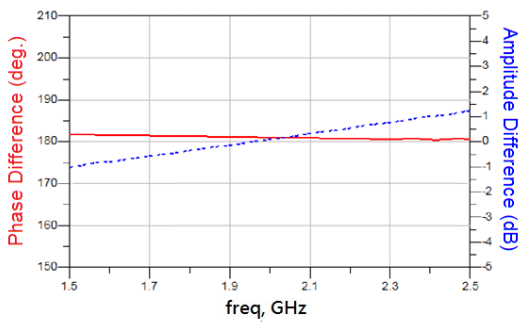

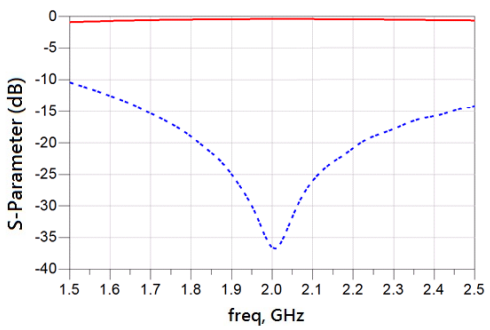

TYPICAL ELECTRICAL CHARACTERISTICS

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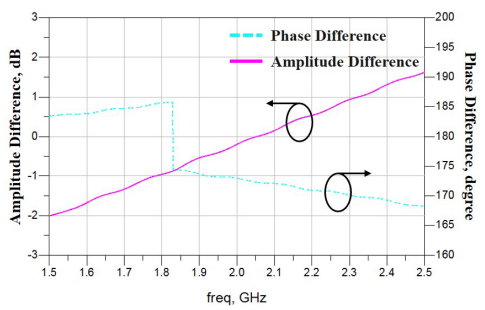

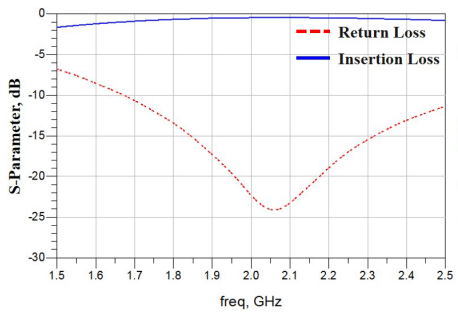

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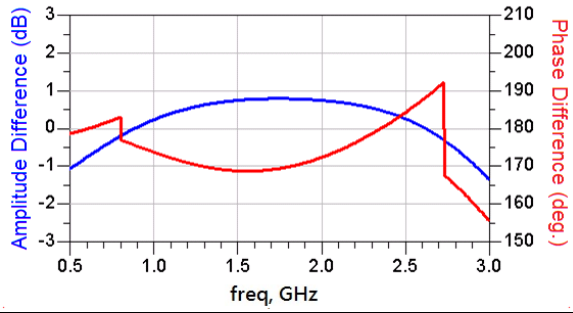

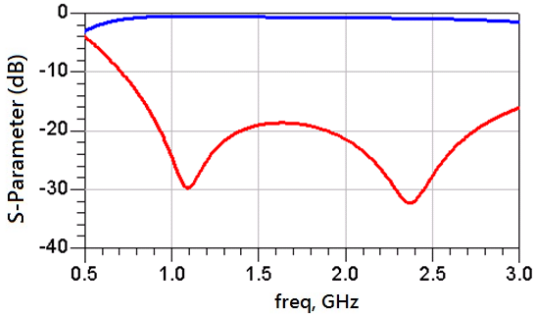

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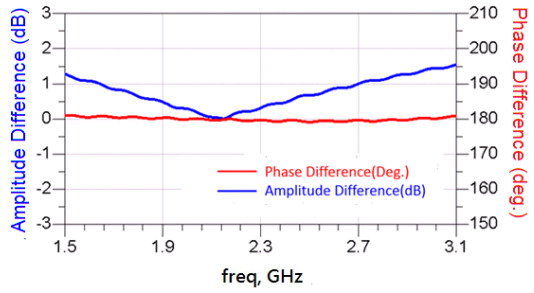

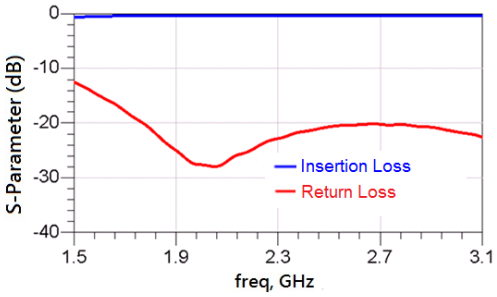

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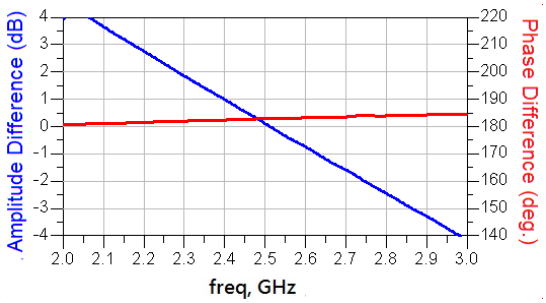

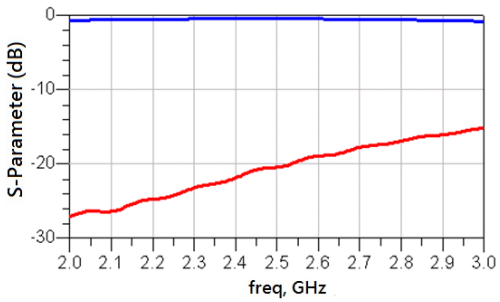

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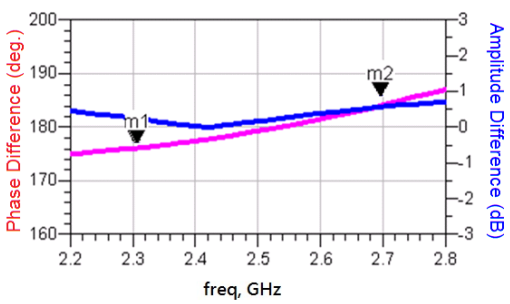

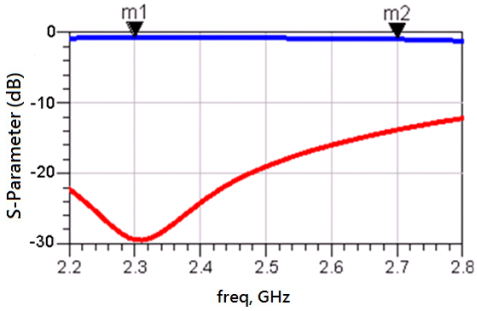

TYPICAL ELECTRICAL CHARACTERISTICS

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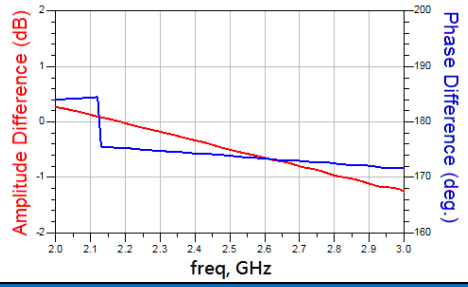

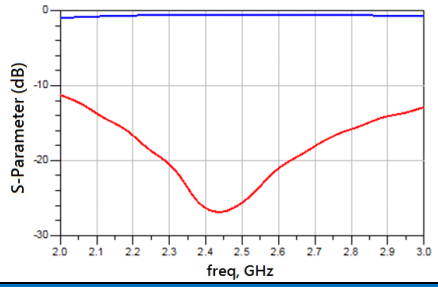

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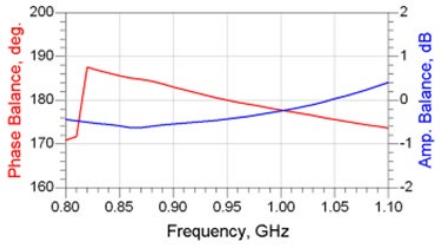
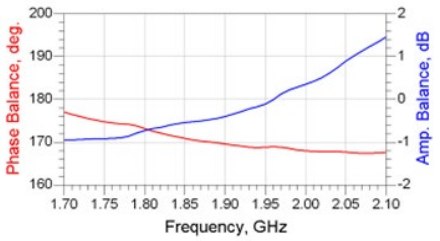
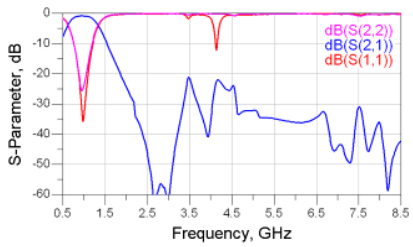
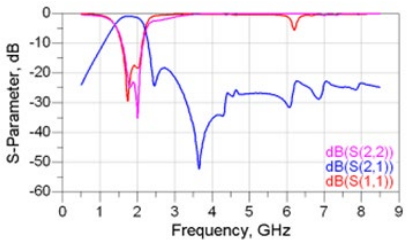
Low Band	High Band









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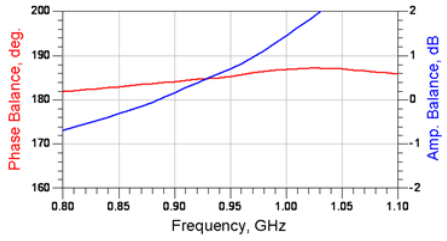
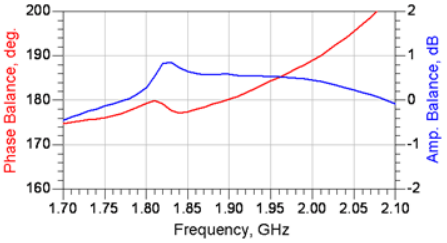
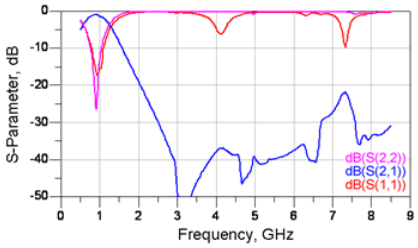
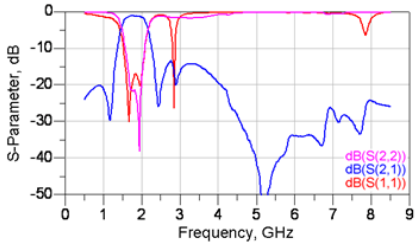
Low Band	High Band







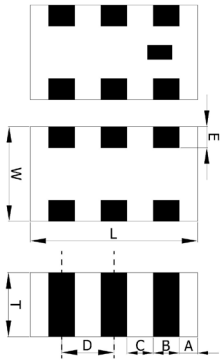


- **For more information, please contact with local sales representative**
- **All specifications are subject to change without notice**

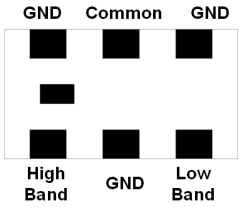
DIPLEXER

■ STRUCTURE AND PIN ASSOCIATED

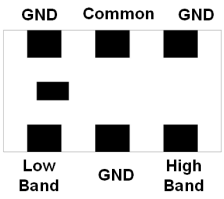
STRUCTURE A



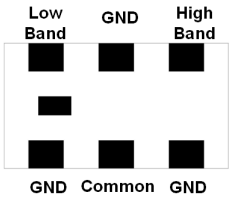
STRUCTURE A-1



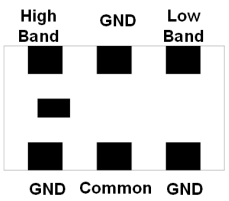
STRUCTURE A-2



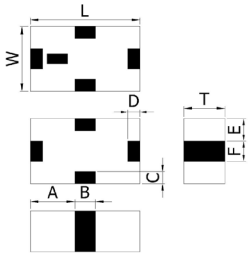
STRUCTURE A-3



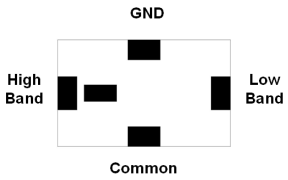
STRUCTURE A-4



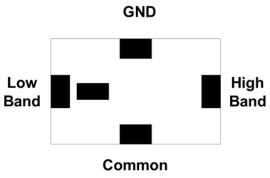
STRUCTURE B



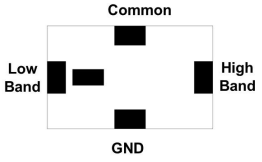
STRUCTURE B-1



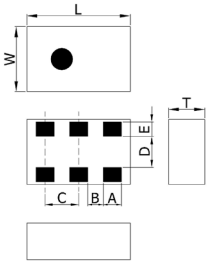
STRUCTURE B-2



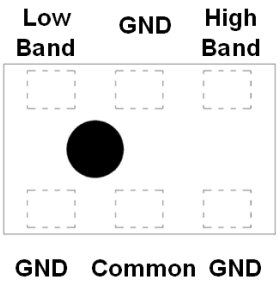
STRUCTURE B-3



STRUCTURE C



STRUCTURE C-1



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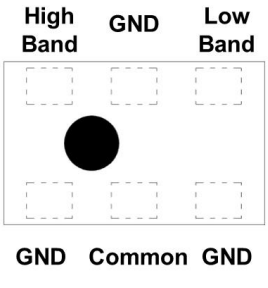
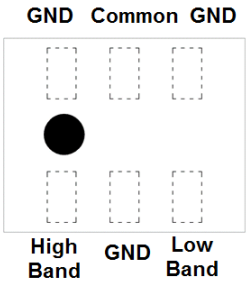
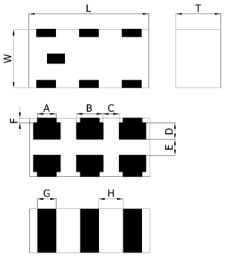


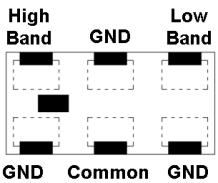
STRUCTURE C-3



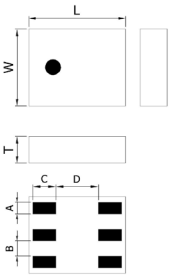
STRUCTURE D



STRUCTURE D



STRUCTURE E



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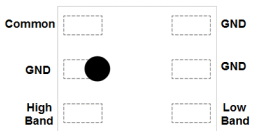
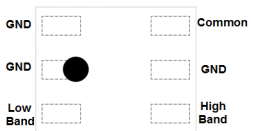
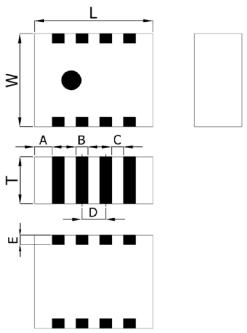


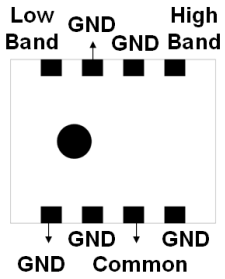
STRUCTURE E-2



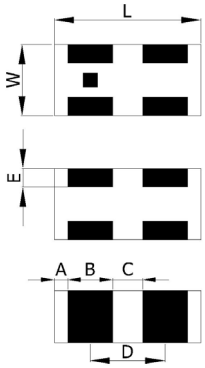
■ STRUCTURE AND PIN ASSOCIATED

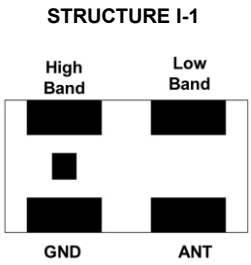
STRUCTURE F

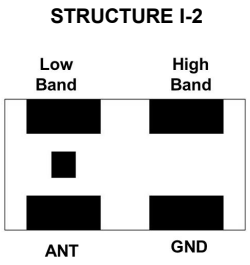




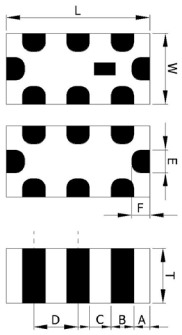
STRUCTURE G

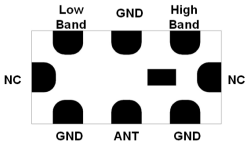




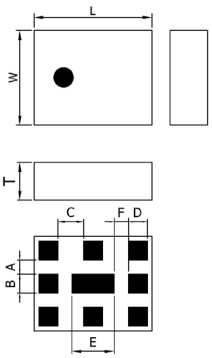


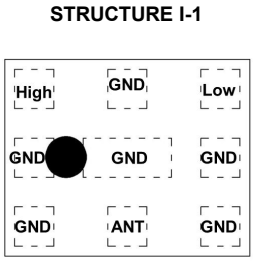
STRUCTURE H

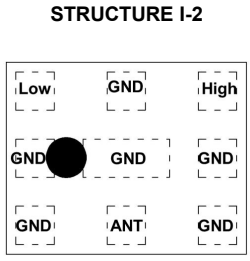




STRUCTURE I







■ STRUCTURE AND DIMENSION

Unit: mm

Structure\ Dimension	L	W	T	A	B	C	D	E	F
A	1.60±0.15	0.80±0.15	0.60±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-
	2.00±0.10	1.25±0.20	0.55±0.15	0.20±0.15	0.30±0.15	0.35±0.15	0.65±0.15	0.20±0.10	-
	2.00±0.15	1.25±0.15	0.95±0.10	0.20±0.20	0.30±0.20	0.35±0.20	0.65±0.20	-	-
B	1.60±0.15	0.80±0.15	0.60±0.10	0.65±0.15	0.30±0.15	0.20±0.15	0.20±0.15	0.25±0.15	0.30±0.15
C	2.00±0.15	1.25±0.15	0.70±0.10	0.35±0.10	0.30±0.10	0.65±0.10	0.60±0.10	0.275±0.10	-
			0.90±0.10	0.35±0.10	0.30±0.10	0.65±0.10	0.60±0.10	0.275±0.10	-
	2.50±0.15	2.00±0.15	0.80±0.15	0.30±0.15	0.35±0.15	0.65±0.15	0.75±0.15	0.525±0.15	
D	1.60±0.15	0.80±0.15	0.60±0.10	0.175±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-
E	2.50±0.15	2.00±0.15	0.70±0.10	0.30±0.10	0.40±0.10	0.60±0.10	1.10±0.10	-	-
F	2.50±0.15	2.00±0.15	1.0max.	0.375±0.15	0.25±0.15	0.25±0.15	0.50±0.15	0.20±0.15	-
G	1.00±0.10	0.50±0.10	0.40max.	0.10±0.10	0.30±0.10	0.20±0.10	0.50±0.10	0.125±0.10	-
H	1.60±0.15	0.80±0.15	0.60±0.10	0.65±0.15	0.30±0.15	0.20±0.15	0.20±0.15	0.25±0.15	0.30±0.15
I	2.50±0.15	2.00±0.15	0.65±0.10	0.30±0.10	0.40±0.10	0.55±0.10	0.40±0.10	0.90±0.10	0.30±0.10

■ ELECTRICAL SPECIFICATION

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1005040L38Q1C	2400~2500	50	0.5(25℃) 0.7(-40~+85℃)	23(4800~6000MHz) 23(7200~7500MHz)	10	-	1.00x0.50x0.40	H-2
	5150~5850	50	0.8(25℃) 1.0(-40~+85℃)	23(1545~1610MHz) 32(2400~2500MHz) 23(2500~2690MHz) 20(10300~11700MHz)				
RFDIP1005040L58Q1C	2400~2500	50	0.5(25℃) 0.7(-40~+85℃)	23(4800~6000MHz) 23(7200~7500MHz)	10	-	1.00x0.50x0.40	H-1
	4900~5950	50	0.8(25℃) 1.0(-40~+85℃)	25(30~2400MHz) 27(2400~2500MHz) 23(2500~2690MHz) 20(98000~11900MHz)				
RFDIP1004L10AT	2400~2500	50	0.5(25℃) 0.6(-40~+85℃)	25(4800~6000MHz) 23(7200~7500MHz)	10	-	1.00x0.50x0.40	H-1
	4900~5950	50	0.8(25℃) 1.0(-40~+85℃)	27(30~2400MHz) 30(2400~2500MHz) 24(2500~2690MHz) 20(98000~11900MHz)				
RFDIP1608060LCT	2400~2500	50	0.6	20(4800~5000MHz) 20(7200~7500MHz)	10	28(30~2700 MHz) 26(4900~5950 MHz)	1.60x0.80x0.60	A-4
	4900~5900	50	1.4	28(30~2700MHz) 10(9800~11900MHz)				
RFDIP1608060LET	2400~2500	50	0.6	18(4800~5000MHz) 18(7200~7500MHz)	10	-	1.60x0.80x0.60	A-1
	4900~5900	50	1.4	20(3700~3900MHz) 20(1800~2500MHz) 10(9800~11800MHz))				
RFDIP1608060LFT	2400~2500	50	0.6	18(4800~5000MHz) 18(7200~7500MHz)	10	-	1.60x0.80x0.60	A-2
	4900~5900	50	1.4	20(3700~3900MHz) 20(1800~2500MHz) 10(9800~11800MHz)				
RFDIP1608060LVT	2400~2500	50	0.6	-	10	32 (30~2700 MHz) 28(4900~5950 MHz)	1.60x0.80x0.60	A-4
	4900~5950	50	0.8	32(30~2700MHz) 15(9800~11900MHz) 11(14700~17850MHz)				
RFDIP1608060LY8Q1C	2400~2496	50	0.5	35(4800~5000MHz) 15(7200~7500MHz)	12	-	1.60x0.80x0.60	A-3
	5150~5950	50	1.0	30(70~2000MHz) 30(2400~2690MHz 12(7250~7800MHz 25(10300~12000MHz) 10(15000~18000MHz)				
RFDIP160806BLM6T25	2400~2500	50	0.5	10(3600~3750MHz) 20(4800~5000MHz) 20(5000~5950MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	-	1.60x0.80x0.60	A-1
	4900~5950	50	0.6	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170 MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)		25(4800~5000 MHz)		
RFDIP160806ALM6T30	2400~2500	50	0.5	10(3600~3750MHz) 20(4800~5000MHz) 20(5000~5950MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	-	1.60x0.80x0.60	A-2
	4900~5950	50	0.6	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)		25(4800~5000 MHz)		

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1608060LM0T60	2400~2500	50	0.75(25℃) 0.95(-40~+85℃)	20(4800~5000MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	A-2
	4900~5950	50	1.0(25℃) 1.3(-40~+85℃)	20(1800~2500MHz 20(9800~11800MHz				
RFDIP160806BLM6T68	2400~2500	50	0.50(25℃) 0.65(-40~+85℃)	21(4800~5000MHz) 21(5000~5950MHz) 25(7200~7500MHz)	10	32(2400~2500MHz) 25(4900~6000MHz)	10	A-2
	4900~5950	50	0.60(25℃) 0.75(-40~+85℃)	27(824~2170MHz) 30(2400~2500MHz 20(9800~11900MHz				
RFDIP1608060LS3T55	2400~2500	50	0.60(25℃) 0.65(-40~+85℃)	32(4800~4992MHz) 24(7200~7488MHz)	10	32(30~2700MHz) 28(4900~5950MHz)	1.60x0.80x0.60	A-4
	4900~5950	50	0.70(25℃) 0.80(-40~+85℃)	32(30~2700MHz) 15(9800~11900MHz) 11(14700~17850MHz)				
RFDIP160806ELM6T63	2400~2500	50	0.45(25℃) 0.55(-40~+85℃)	21(4800~5000MHz) 23(5000~5950MHz) 30(7200~7500MHz)	10	32(2400~2500MHz) 25(4900~6000MHz)	1.60x0.80x0.60	A-2
	4900~5950	50	0.60(25℃) 0.80(-40~+85℃)	26(824~2170MHz) 30(2400~2500MHz) 32(9800~11900MHz) 15(15500~17500MHz)				
RFDIP1607ALM9T21	2400~2500	50	0.75(25℃) 0.85(-40~+85℃)	8(30~1000MHz) 30(4800~7125MHz) 30(7200~7500MHz) 15(7700~7950MHz) 15(7500~12000MHz)	13	40(2400~2500MHz) 25(4800~5000MHz) 10(15450~21375MHz)	1.60x0.80x0.60	A-1
	5150~7125	50	1.25(25℃) 1.45(-40~+85℃)	15(100~2300MHz) 40(2400~2500MHz) 15(2700~3500MHz) 25(10300~14250MHz) 15(15450~21375MHz)				
RFDIP1607ELM9T21	2400~2500	50	0.85(25℃) 0.95(-40~+85℃)	15(30~1000MHz) 30(4800~7125MHz) 30(7200~7500MHz) 15(7700~7950MHz) 15(7500~12000MHz)	13	40(2400~2500MHz) 25(4800~5000MHz) 10(15450~21375MHz)	1.60x0.80x0.60	A-1
	5150~7125	50	1.20(25℃) 1.45(-40~+85℃)	15(100~2300MHz) 40(2400~2500MHz) 15(2700~3500MHz) 25(10300~14250MHz) 15(15450~21375MHz)				
RFDIP1606ELM9T20	2400~2500	50	0.7(25℃) 0.9(-40~+85℃)	27(4800~5000MHz) 23(5000~5950MHz) 32(7200~7500MHz)	10	28(2400~2500MHz) 25(4900~5950MHz)	1.60x0.80x0.60	A-2
	4900~5950	50	1.0(25℃) 1.2(-40~+85℃)	22(824~2170MHz) 28(24000~2500MHz) 28(9800~11900MHz) 15(15500~17500MHz)				
RFDIP1607CLM9T22	2400~2500	50	1.2(25℃) 1.4(-40~+85℃)	10(1200MHz) 35(4800~5000MHz) 35(5150~7125MHz) 35(7200~7500MHz)	10	38(2400~2500MHz) 35(5150~7125MHz)	1.60x0.80x0.60	A-1
	5150~7125	50	1.4(25℃) 1.6(-40~+85℃)	38(24000~2500MHz) 33(10300~10400MHz) 30(10400~14250MHz) 25(15450~21375MHz)				
RFDIP1607ELM9T33	2400~2500	50	0.80(25℃) 0.95(-40~+85℃)	18(30~1000MHz) 40(4800~4900MHz) 40(4900~5000MHz) 30(5000~7125MHz) 30(7200~7500MHz) 20(7500~12000MHz)	11	30(2400~2500MHz) 30(4800~5150MHz) 30(5150~5950MHz) 28(5950~6300MHz) 15(11900~14250MHz) 15(15000~18000MHz)	1.60x0.80x0.60	A-2
	5150~7125	50	1.0(25℃) 1.2(-40~+85℃)	28(70~1000MHz) 20(1000~2400MHz) 30(2400~2500MHz) 30(9800~10200MHz) 35(10300~12700MHz) 25(14700~18900MHz)				

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1607NLM9T21	2400~2500	50	0.85(25℃) 0.95(-40~+85℃)	15(30~1000MHz) 30(4800~7125MHz) 30(7200~7500MHz) 15(7700~7950MHz) 15(7500~12000MHz)	13	40(2400~2500MHz) 25(4800~5000MHz) 10(15450~21375MHz)	1.60x0.80x0.60	A-1
	5150~7125	50	1.20(25℃) 1.45(-40~+85℃)	15(100~2300MHz) 40(2400~2500MHz) 15(2700~3500MHz) 25(10300~14250MHz) 15(15450~21375MHz)				
RFDIP1607WLM9T02	2400~2500	50	0.75(25℃) 0.90(-40~+85℃)	35(4800~5000MHz) 35(5150~7125MHz) 33(7200~7500MHz) 18(10300~14250MHz) 5(15450~21350MHz)	12	30(2400~2500MHz) 35(4800~5000MHz) 35(5150~7125MHz) 33(7200~7500MHz) 18(10300~14250MHz) 10(15450~21350MHz)	1.60x0.80x0.60	C-3
	5150~7125	50	1.3(25℃) 1.5(-40~+85℃)	30(24000~2500MHz) 35(10300~11900MHz) 30(11900~14250MHz) 20(15450~17850MHz) 15(17850~21375MHz)				
RFDIP1606L168M1U	2400~2500	50	0.55(25℃) 0.60(-40~+85℃)	29(4800~5000MHz) 24(7200~7500MHz)	10	32(30~2700MHz) 28(4900~5950 MHz)	1.60x0.80x0.60	A-3
	4900~5950	50	0.70(25℃) 0.80(-40~+85℃)	32(30~2700MHz) 15(9800~11900MHz) 11(14700~17850MHz)				
RFDIP1606L21T	2400~2500	50	0.4(25℃) 0.5(-40~+85℃)	20(4900~5850MHz) 15(5850~8500MHz)	10	-	1.60x0.80x0.60	B-2
	4900~5950	50	0.6(25℃) 0.7(-40~+85℃)	20(2400~2500MHz)				
RFDIP1606L22T	2400~2500	50	0.4(25℃) 0.5(-40~+85℃)	20(4900~5850MHz)	10	32(30~2700MHz) 28(4900~5950 MHz)	1.60x0.80x0.60	B-1
	4900~5950	50	0.6(25℃) 0.7(-40~+85℃)	20(2400~2500MHz)				
RFDIP1606L23T	2400~2500	50	0.6	23(4800~5000MHz) 30(7200~7500MHz)	10	-	1.60x0.80x0.60	A-3
	5150~5850	50	1.5	25(2400~2500MHz) 15(3400~3600MHz) 10(3600~3900MHz) 20(6900~7550MHz) 30(10600~11700MHz) 20(15300~16200MHz)				
RFDIP1606L24T	2400~2500	50	0.5	23(4800~5000MHz) 30(7200~7500MHz)	10	-	1.60x0.80x0.60	A-4
	5150~5850	50	0.6	25(2400~2500MHz) 15(3400~3600MHz) 10(3600~3900MHz) 20(6900~7550MHz) 30(10600~11700MHz) 20(15300~16200MHz)				
RFDIP1606L29T	2400~2500	50	0.75(25℃) 0.95(-40~+85℃)	25(4800~5000MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	A-2
	4900~5950	50	1.10(25℃) 1.30(-40~+85℃)	20(1800~2500MHz) 15(9800~11900MHz)				
RFDIP1606L53T	2400~2500	50	0.5	10(3600~3750MHz) 20(4800~5000MHz) 20(5000~5950MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	-	1.60x0.80x0.60	A-3
	5150~5850	50	0.6	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 25(2400~2500MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)				

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1606L54T	2400~2500	50	0.5	10(3600~3750MHz) 20(4800~5000MHz) 20(5000~5950MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	-	1.60x0.80x0.60	A-4
	4900~5950	50	0.6	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 25(2400~2500MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)				
RFDIP1606L618D1T	2400~2500	50	0.4(25℃) 0.5(-40~+85℃)	19(4800~5000MHz) 17(7200~7500MHz)	10	-	1.60x0.80x0.60	G
	5100~5900	50	1.0(25℃) 1.1(-40~+85℃)	23(1800~2500MHz) 9(3700~3900MHz) 13(9800~11900MHz)				
RFDIP1606L80T	2400~2500	50	0.68(25℃) 0.88(-40~+85℃)	10(3600~3750MHz) 20(4800~5000MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	-	1.60x0.80x0.60	A-1
	4900~5950	50	0.78(25℃) 0.98(-40~+85℃)	25(860~960MHz) 25(1545~1605MHz) 25(17100~1990MHz) 20(2170MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11800MHz)				
RFDIP1607L898D1T	2400~2500	50	0.90(25℃) 1.05(-40~+85℃)	15(700~1300MHz) 25(4800~5000MHz) 30(7000~7500MHz)	10	30(2400~2500MHz) 25(4900~5950MHz)	1.60x0.80x0.70	A-4
	4900~5950	50	0.80(25℃) 0.95(-40~+85℃)	27(1200~1500MHz) 26(1500~2000MHz) 20(2300~3000MHz) 25(9800~11900MHz) 15(14700~17850MHz)				
RFDIP1606L95T	2400~2500	50	0.50(25℃) 0.60(-40~+85℃)	20(4800~5000MHz) 22(5000~5950MHz) 20(7200~7500MHz)	10	30(2400~2500MHz) 25(4800~6000MHz)	1.60x0.80x0.60	A-1
	4900~5950	50	0.65(25℃) 0.75(-40~+85℃)	25(825~2170MHz) 30(2400~2500MHz) 23(9800~11900MHz)				
RFDIP1606L100T	2400~2500	50	0.75(25℃) 0.90(-40~+85℃)	15(1200~1250MHz) 30(4800~5000MHz) 30(5000~5950MHz) 30(7200~7500MHz)	10	30(2400~2500MHz) 30(4900~6000MHz)	1.60x0.80x0.60	A-1
	4900~5950	50	0.50(25℃) 0.65(-40~+85℃)	30(2400~2500MHz)				
KFDIP1606L96A8Q1C	2400~2500	50	0.7(25℃) 0.9(-40~+85℃)	40(4800~5000MHz) 20(7200~7500MHz)	10	40(2400~2500MHz) 40(4800~5000MHz) 40(5000~6000MHz)	1.60x0.80x0.60	C-2
	4900~5150 5150~5950	50	1.3(25℃) 1.5(-40~+85℃) 1.0(25℃) 1.2(-40~+85℃)	40(2400~2500MHz) 25(10300~11700MHz) 15(15300~16200MHz)				
KFDIP1606L96B8Q1C	2400~2500	50	0.7(25℃) 0.9(-40~+85℃)	40(4800~5000MHz) 20(7200~7500MHz)	10	40(2400~2500MHz) 40(4800~5000MHz) 40 (5000~6000MHz	1.60x0.80x0.60	C-1
	4900~5100 5150-5950	50	1.3(25℃) 1.5(-40~+85℃) 1.0(25℃) 1.2(-40~+85℃)	40(2400~2500MHz) 25(10300~11700MHz 15(15300~16200MHz				
RFDIP1606L110C8Q1C	2400~2500	50	0.48(25℃) 0.58(-40~+85℃)	20(4800~5000MHz) 22(5000~5950MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	A-3
	4900~5950	50	0.68(25℃) 0.78(-40~+85℃)	26(824~2170MHz) 30(2400~2500MHz) 25(9800~11900MHz) 20(15450~17550MHz)				
RFDIP1606L115A8D1T	2400~2500	50	0.50(25℃) 0.70(-40~+85℃)	27(4800~5000MHz) 27(7200~7500MHz)	12	27(2400~2500MHz) 27(5150~5850MHz)	1.60x0.80x0.60	A-4
	5150~5850	50	0.70(25℃) 0.90(-40~+85℃)	27(2400~2500MHz) 27(10300~11700MHz) 27(15450~16200MHz)				

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1606L115B8D1T	2400~2500	50	0.50(25℃) 0.70(-40~+85℃)	27(4800~5000MHz) 27(7200~7500MHz)	12	27(2400~2500MHz) 27(5150~5850MHz)	1.60x0.80x0.60	A-3
	5150~5850	50	0.70(25℃) 0.90(-40~+85℃)	27(2400~2500MHz) 27(10300~11700MHz) 27(15450~16200MHz)				
RFDIP1606L117B8D1T	2400~2500	50	0.50(25℃) 0.65(-40~+85℃)	35(4800~5000MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	A-4
	5150~5950	50	1.0(25℃) 1.2(-40~+85℃)	30(70~2000MHz) 30(2400~2690MHz) 12(7250~7800MHz) 25(10300~12000MHz) 10(15000~18000MHz)				
RFDIP1607L123AT	2400~2500	50	0.70(25℃) 0.75(-40~+85℃)	32(4800~4992MHz) 24(7200~7488MHz)	10	32(30~2700MHz) 28(4900~5950MHz)	1.60x0.80x0.60	A-4
	4900~5150 5150~5950	50	0.9(25℃) 1.0(-40~+85℃) 0.85(25℃) 0.95(-40~+85℃)	32(30~2700MHz) 15(9800~11900MHz) 11(14700~17850MHz)				
RFDIP1606L129AT	2400~2500	50	0.60(25℃) 0.75(-40~+85℃)	30(4800~5000MHz) 30(5000~5950MHz) 20(7200~7500MHz)	10	38(2400~2500MHz) 38(4900~5950MHz)	1.60x0.80x0.60	A-1
	4900~5950	50	0.78(25℃) 0.98(-40~+85℃)	26(824~2170MHz) 30(2400~2500MHz) 25(9800~11900MHz) 15(15450~17550MHz)				
RFDIP1606L129BT	2400~2500	50	0.60(25℃) 0.75(-40~+85℃)	30(4800~5000MHz) 30(5000~5950MHz) 20(7200~7500MHz)	10	38(2400~2500MHz) 38(4900~5950MHz)	1.60x0.80x0.60	A-2
	4900~5950	50	0.78(25℃) 0.98(-40~+85℃)	26(824~2170MHz) 30(2400~2500MHz) 25(9800~11900MHz) 15(15450~17550MHz)				
RFDIP1606L129CT	2400~2500	50	0.60(25℃) 0.75(-40~+85℃)	30(4800~5000MHz) 30(5000~5950MHz) 20(7200~7500MHz)	10	38(2400~2500MHz) 38(4900~5950MHz)	1.60x0.80x0.60	A-3
	4900~5950	50	0.78(25℃) 0.98(-40~+85℃)	26(824~2170MHz) 30(2400~2500MHz) 25(9800~11900MHz) 15(15450~17550MHz)				
RFDIP1607L132A8D1T	2400~2500	50	0.90(25℃) 1.10(-40~+85℃)	17(700~1300MHz) 25(4800~5000MHz) 27(7000~7500MHz)	13	-	1.60x0.80x0.60	A-1
	4900~5950	50	1.10(25℃) 1.30(-40~+85℃)	25(1200~1500MHz) 26(1600~2000MHz) 25(2300~3000MHz) 28(10000~12000MHz) 20(15000~16500MHz) 10(16500~18000MHz)				
RFDIP1606L150AT	2400~2500	50	0.45(25℃) 0.55(-40~+85℃)	21(4800~5000MHz) 23(5000~5500MHz) 28(5500~5950MHz) 21(7200~7500MHz)	10	-	1.60x0.80x0.60	A-2
	4900~5850	50	0.60(25℃) 0.70(-40~+85℃)	27(824~2170MHz) 31(2400~2500MHz) 26(9800~11900MHz)				
RFDIP1606L150BT	2400~2500	50	0.45(25℃) 0.55(-40~+85℃)	20(4800~5000MHz) 22(5000~5950MHz) 20(7200~7500MHz)	10	-	1.60x0.80x0.60	A-1
	4900~5850	50	0.60(25℃) 0.70(-40~+85℃)	26(824~2170MHz) 30(2400~2500MHz) 25(9500~11900MHz)				
RFDIP1606L166AT	698~2690	50	0.28(698~9600MHz) 0.45(1427~1511MHz) 0.55(1710~2170MHz) 0.90(2300~2690MHz)	8(3300~3400MHz) 13(3400~3800MHz) 14(3800~4200MHz) 16(4400~5000MHz) 20(5150~5850MHz)	10	17(698~9600MHz) 14(1427~1511MHz) 14(1710~2170MHz) 14(2300~2690MHz) 10(3300~3400MHz) 13(3400~3800MHz) 14(3800~4200MHz) 16(4400~5000MHz) 20(5150~5850MHz	1.60x0.80x0.60	C-1
	3300~5850	50	1.65(3300~3400MHz) 1.00(3400~3800MHz) 0.65(3800~4200MHz) 0.54(4400~5000MHz) 0.54(5150~5850MHz)	17(698~9600MHz) 15(1427~1511MHz) 15(1710~2170MHz) 14(2300~2690MHz) 18(10300~11700MHz)				

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP1606LB46T	2400~2500	50	0.60(25℃) 0.75(-40~+85℃)	30(4800~5000MHz) 30(5000~5950MHz) 29(7200~7500MHz) 29(7200~7236MHz) 29(7311~7386MHz) 29(7416~7500MHz)	10	38(2400~2500MHz) 35(4900~5950MHz)	1.60x0.80x0.60	A-2
	4900~5950	50	0.78(25℃) 0.98(-40~+85℃)	26(824~2170MHz) 30(2400~2500MHz) 25(9800~11900MHz) 15(15450~17550MHz)				
RFDIP1606LC538D1T	2400~2500	50	1.0(25℃) 1.2(-40~+85℃)	18(700~1300MHz) 30(4800~5000MHz) 30(7200~7500MHz)	10	30(2400~2500MHz) 30(5150~7125MHz)	1.60x0.80x0.60	A-1
	5150~5925 5925~7125	50	1.1(25℃) 1.3(-40~+85℃) 1.8(25℃) 2.0(-40~+85℃)	26(16000~2000MHz) 25(2300~3000MHz) 8(7700~9400MHz) 25(10300~14400MHz) 15(15450~21660MHz)				
KFDIP2004L157B1U	2400~2500	50	0.5	10(3600MHz) 20(4800~5000MHz) 20(7200~7500MHz)	10	20(DC~2500MHz) 20(4900~5950MHz)	2.00x1.25x0.40	A-3
	4900~5950	50	1.0	20(824~915MHz) 20(1800~2500MHz) 10(3000~3900MHz) 4(7250MHz) 20(9800~11900MHz) 20(14700~17850MHz)				
KFDIP2004L167B1U	2400~2500	50	0.5	10(3600MHz) 20(4800~5000MHz) 20(7200~7500MHz)	10	20(DC~2500MHz) 20(4900~5950MHz)	2.00x1.25x0.40	A-4
	4900~5950	50	1.0	20(824~915MHz) 20(1800~2500MHz) 10(3000~3900MHz) 4(7250MHz) 20(9800~11900MHz) 20(14700~17850MHz)				
KFDIP2004L197B1U	2400~2500	50	0.6	15(3600MHz) 25(4800~5000MHz) 20(7200~7500MHz)	10	20(DC~2500MHz) 20(4900~5950MHz)	2.00x1.25x0.40	A-3
	4900~5950	50	1.0	20(824~915MHz) 18(1800~2500MHz) 14(3000~3900MHz) 20(9800~11900MHz) 20(14700~17850MHz)				
RFDIP2012050L5T	2400~2500	50	0.7	18(4800~6000MHz) 18(7200~7500 MHz)	10	-	2.00x1.25x0.55	A-1
	4900~5900	50	1.0	19(1800~2500MHz) 25(10300~10700MHz)				
RFDIP2012050L7T	2400~2500	50	0.7	18(4800~6000MHz) 18(7200~7500MHz)	10	-	2.00x1.25x0.55	A-2
	4900~5900	50	1.0	19(1800~2500MHz) 25(10300~10700MHz)				
RFDIP2012050L8T	2300~2500	50	0.65(25℃) 0.8(-40~+85℃)	20(4600~5000MHz) 20(6900~7500MHz)	10	-	2.00x1.25x0.55	A-3
	4900~5950	50	1.0	19(1800~2500MHz) 25(10300~10700MHz)				
RFDIP2012100L0T	2400~2500	50	0.7	20(4900MHz) 25(5200MHz) 25(5800MHz)	10	-	2.00x1.25x0.95	A-3
	4900~5900	50	0.9	25(2450MHz)				
RFDIP2012100L3T	2400~2500	50	0.7	20(4900MHz) 25(5200MHz) 25(5800MHz)	10	-	2.00x1.25x0.95	A-2
	4900~5900	50	0.9	25(2450MHz)				
RFDIP2012050LPT	2400~2500	50	0.5(25℃) 0.55(-40~+85℃)	23(4800~6000MHz) 20(7200~7500MHz)	10	-	2.00x1.25x055	A-1
	4900~5950	50	0.65(25℃) 0.75(-40~+85℃)	20(800~2500MHz) 15(9800~11900MHz)				

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFDIP2012050LQT	2400~2500	50	0.5(25℃) 0.55(-40~+85℃)	23(4800~6000MHz) 20(7200~7500MHz)	10	-	2.00x1.25x0.55	A-2
	4900~5950	50	0.65(25℃) 0.75(-40~+85℃)	20(800~2500MHz) 15(9800~11900MHz)				
RFDIP2008L107N3T	2400~2500	50	2.2(25℃) 2.4(-40~+85℃)	30(824~915MHz) 30(1545~1610MHz) 30(1710~1990MHz) 25(2110~2170MHz) 8(3200~3600MHz) 12(3700~3900MHz) 28(4800~5000MHz) 25(7200~7500MHz)	10	-	2.00x1.25x0.80	A-1
	5150~5850	50	1.2(25℃) 1.5(-40~+85℃)	20(1545~1610MHz) 20(1710~1990MHz) 20(2110~2170MHz) 23(2400~2500MHz) 8(3450~3900MHz) 8(7250~7800MHz) 20(9800~11700MHz)				
RFDIP2008L117N3T	2400~2500	50	2.2(25℃) 2.4(-40~+85℃)	30(824~915MHz) 30(1545~1610MHz) 30(1710~1990MHz) 25(2110~2170MHz) 8(3200~3600MHz) 12(3700~3900MHz) 28(4800~5000MHz) 25(7200~7500MHz)	10	-	2.00x1.25x0.80	A-2
	5150~5850	50	1.2(25℃) 1.5(-40~+85℃)	20(1545~1610MHz) 20(1710~1990MHz) 20(2110~2170MHz) 23(2400~2500MHz) 8(3450~3900MHz) 8(7250~7800MHz) 20(9800~11700MHz)				
RFDIP2006LB18T	1559~3800 3800~4200	50	0.7(25℃) 0.9(-40~+85℃) 1.6(25℃) 1.9(-40~+85℃)	18(5150~5850MHz)	10	-	2.00x1.25x0.65	C-2
	5150~5850	50	0.85(25℃) 1.05(-40~+85℃)	20(3400~3800MHz) 7(3800~4200MHz) 20(10300~11700MHz) 20(15450~17550MHz)				
AMDIP2520070L3T	2400~2500	50	2.4(25℃) 2.7(-40~+85℃)	30(824~915MHz) 30(1545~1610MHz) 24(1710~1990MHz) 15(2110~2170MHz) 30(4800~5000MHz) 20(7200~7500MHz)	10	-	2.50x2.00x0.70	E-1
	5150~5850	50	1.2(25℃) 1.5(-40~+85℃)	25(1545~1610MHz) 25(2400~2500MHz) 15(10300~11700MHz)				
AMDIP2520070L4T	2400~2500	50	2.4(25℃) 2.7(-40~+85℃)	30(824~915MHz) 30(1545~1610MHz) 24(1710~1990MHz) 15(2110~2170MHz) 30(4800~5000MHz) 20(7200~7500MHz)	10	-	2.00x1.25x0.80	E-2
	5150~5850	50	1.2(25℃) 1.5(-40~+85℃)	25(1545~1610MHz) 25(2400~2500MHz) 15(10300~11700MHz)				
RFDIP2506L19AT	617~960 1427~1661 1710~2200 2300~2690	50	0.4 0.5 0.5 0.8	18(3300~3400MHz) 20(3400~3800MHz) 20(3800~4200MHz) 20(4400~5000MHz) 20(5150~5950MHz)	10	20(617~2690MHz) 18(1427~1661MHz) 18(1710~2200MHz) 18(2300~2690MHz) 18(3300~3400MHz) 20(3400~3800MHz) 20(3800~4200MHz) 20(4400~5000MHz) 20(5150~5950MHz)	2.50x2.00x0.65	I-1
	3300~3400 3400~4200 4400~5000 5150~5950	50	1.0 0.8 0.8 0.8	20(617~2690MHz) 18(1427~1661MHz) 18(1710~2200MHz) 18(2300~2690MHz) 20(10300~11700MHz) 15(15450~17550MHz)				
RFDIP2506L19BT	617~960 1427~1661 1710~2200 2300~2690	50	0.4 0.5 0.5 0.8	18(3300~3400MHz) 20(3400~3800MHz) 20(3800~4200MHz) 20(4400~5000MHz) 20(5150~5950MHz)	10	20(617~2690MHz) 18(1427~1661MHz) 18(1710~2200MHz) 18(2300~2690MHz) 18(3300~3400MHz) 20(3400~3800MHz) 20(3800~4200MHz) 20(4400~5000MHz) 20(5150~5950MHz)	2.50x2.00x0.65	I-2
	3300~3400 3400~4200 4400~5000 5150~5950	50	1.0 0.8 0.8 0.8	20(617~2690MHz) 18(1427~1661MHz) 18(1710~2200MHz) 18(2300~2690MHz) 20(10300~11700MHz) 15(15450~17550MHz)				

GPS 1.575GHz/ISM 2.4GHz/5GHz Band Application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB)Min.	Isolation	Size (mm)	Structure
RFDIP1608060T1T	1574~1577	50	0.65	20(2400~2500MHz)	10	-	1.60x0.80x0.60	B-1
	2400~2500	50	0.8	20(1574~1577MHz)				
RFDIP1608060TM7T62	1570~1610	50	0.6(typ.0.5)	20(2400~2500MHz) 20(4900~5900MHz)	10	-	1.60x0.80x0.60	A-4
	2400~2500 4900~5900	50	0.65(typ.0.55)	20(1570~1610MHz)				
RFDIP1608060TAT	698~960 1427~1511 1560~1607	50	0.40 0.55 0.65	20(2400~2500MHz) 20(2620~2690MHz) 20(5150~5850MHz)	10	-	1.60x0.80x0.60	B-1
	2400~2500 2620~2690 5150~5850	50	0.70 0.60 0.80	20(698~960MHz) 20(1427~1511MHz) 20(1560~1607MHz)				
RFDIP1608060TCT	1570~1610	50	0.6(typ.0.5)	20(2400~2500MHz) 20(4900~5900MHz)	10	-	1.60x0.80x0.60	A-4
	2400~2500 4900~5900	50	0.65(typ.0.55)	20(1570~1610MHz)				
RFDIP1608060TDT	1570~1610	50	0.65(25℃) 0.75(-40~+85℃)	13(2170MHz) 20(2400~2500MHz)	10	-	1.60x0.80x0.60	B-2
	2400~2500	50	0.80(25℃) 0.90(-40~+85℃)	20(1565~1616MHz) 15(1710MHz)				
RFDIP1606T11T	704~960 1572~1578 1570~1610	50	0.50 0.75 0.85	15(2400~2500MHz) 13(2500~2690MHz) 18(4900~5150MHz) 20(5150~5850MHz) 20(5850~5900MHz)	10	-	1.60x0.80x0.60	A-3
	2400~2500 2500~2690 4900~5150 5150~5850 5850~5900	50	0.75 0.85 0.55 0.55 0.55	25(704~960MHz) 20(1570~1578MHz) 20(1570~1610MHz)				
RFDIP1606T24AT	1565~1616	50	0.70(25℃) 0.80(-40~+85℃)	25(2400~2500MHz)	10	25(1565~1616MHz) 33(2400~2500MHz)	1.60x0.80x0.60	B-2
	2400~2500	50	0.80(25℃) 0.90(-40~+85℃)	25(1565~1616MHz)				
RFDIP1606T25ET	1565~1616	50	0.70(25℃) 0.80(-40~+85℃)	25(2400~2500MHz)	10	25(1565~1616MHz) 33(2400~2500MHz)	1.60x0.80x0.60	B-3
	2400~2500	50	0.80(25℃) 0.90(-40~+85℃)	25(1565~1616MHz)				
RFDIP2012090T2T	1572.5~1578.5 1597~1607	50	0.40 0.50	13(2400~2500MHz)	10	-	2.00x1.25x0.90	A-3
	2400~2500	50	0.55(25℃) 0.65(-40~+85℃)	22(1572.5~1578.5MHz) 20(1597~1607MHz)				
RFDIP2006T13AT	600~980 1427~1511 1710~2170 2300~2496 2496~2690	50	0.35 0.45 0.55 0.75 1.05	18(3300~3400MHz) 23(3400~3800MHz) 30(5150~5925MHz) 20(7485~8070MHz)	8.5	30(600~960MHz) 30(1427~1511MHz) 23(1710~2170MHz) 23(2170~2690MHz) 20(3300~3400MHz) 23(3400~3800MHz) 28(5150~5925MHz	2.00x1.25x0.60	C-1
	3300~3400 3400~3800 3800`4200 5150~5925	50	1.30 1.05 0.95 0.65	30(600~960MHz) 30(1427~1511MHz) 25(1710~2170MHz) 22(2170~2690MHz) 25(10300~11850MHz) 5(15450~17775MHz)				

GPS 1.575GHz/ISM 2.4GHz/5GHz Band Application

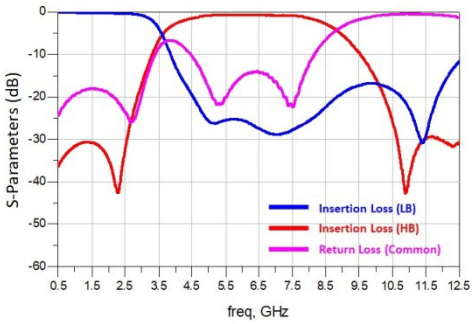
Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB)Min.	Isolation	Size (mm)	Structure
RFDIP2006T13BT	600~980 1427~1511 1710~2170 2300~2496 2496~2690	50	0.35 0.45 0.55 0.75 1.05	18(3300~3400MHz) 23(3400~3800MHz) 30(5150~5925MHz) 20(7485~8070MHz)	8.5	30(600~960MHz) 30(1427~1511MHz) 23(1710~2170MHz) 23(2170~2690MHz) 20(3300~3400MHz) 23(3400~3800MHz) 28(5150~5925MHz	2.00x1.25x0.60	C-2
	3300~3400 3400~3800 3800~4200 5150~5925	50	1.30 1.05 0.95 0.65	30(600~960MHz) 30(1427~1511MHz) 25(1710~2170MHz) 22(2170~2690MHz) 25(10300~11850MHz) 5(15450~17775MHz)				
RFDIP2009T22AT	698~1710 1710~1980 1980~2170	50	0.8 0.8 1.0	12(2496~2690MHz) 12(2690~4200MHz)	12	12(698~2170MHz) 12(2496~4200MHz)	2.00x1.25x0.95	A-3
	2496~2690 2690~4200	50	1.0 0.6	12(698~1710MHz) 12(1710~1980MHz) 15(2110~2170MHz)				
RFDIP2520080T1T	1710~1990 1990~2110 2110~2170	50	1.00 1.50 2.50	5(2300~2350MHz) 10(2350~2500MHz) 10(2500~2690MHz)	10		2.50x2.00x0.80	C-2
	2300~2350 2350~2500 2500~2690	50	2.65 1.50 0.65	8(1710~1990MHz) 8(1990~2110MHz) 5(2110~2170MHz)				

892 MHz & 1.94GHz Band Working Frequency

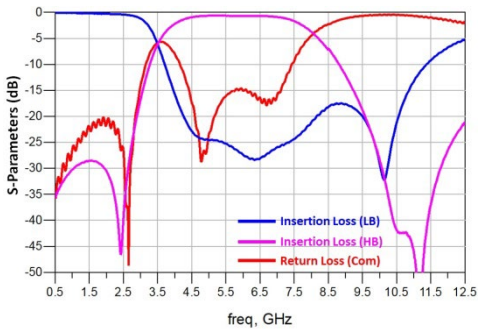
Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB)Min.	Isolation	Size (mm)	Structure
RFDIP1608070GM1T76	698~960	50	0.8(typ.0.45)	25(1710~2700MHz)	10	-	1.60x0.80x0.60	D-2
	1710~2700		0.7(typ.0.50)	20(698~960MHz) 20(5150~5850MHz)				
RFDIP1608070G1T	700~960	50	0.6(25℃) 0.65(-40~+85℃	25(1710~2690MHz)	10	20(700~960MHz) 25(1710~2690MHz)	1.60x0.80x0.60	A-3
	1710~2690		0.6(25℃) 0.65(-40~+85℃	20(700~960MHz)				
RFDIP2012090G77N2T	698~960	50	0.65	15(1554~1580MHz) 20(1710~2700MHz)	10	-	2.00x1.25x0.90	A-4
	1710~2700		0.65	20(824~960MHz)				
RFDIP2012090GM1T58	698~960	50	0.4(25℃) 0.45(-40~+85℃	13(1710~2690MHz)	10	-	2.00x1.25x0.90	C-3
	1710~2690		0.55(25℃) 0.65(-40~+85℃	19(698~960MHz)				
RFDIP2009G12T	698~960	50	0.6(25℃) 0.7(-40~+85℃	28(1710~2170MHz) 28(2170~2400MHz) 32(2400~2700MHz)	10	20(698~960MHz) 25(1710~2700MHz)	2.00x1.25x0.90	A-4
	1710~2700		0.6(25℃) 0.7(-40~+85℃	23(698~960MHz)				
RFDIP2008G27AT	617~698 699~758 758~798 798~960	50	0.60 0.60 0.55 0.60	20(1554~1606MHz) 35(1805~1880MHz) 35(2110~2200MHz) 35(2620~2690MHz) 35(3400~3800MHz) 32(5150~5925MHz)	12	20(617~699MHz) 20(699~960MHz) 30(1710~2200MHz) 38(2300~2690MHz) 30(3400~3800MHz) 25(5150~5925MHz)	2.00x1.25x0.80	C-2
	1452~1496 1710~2200 2300~2690		1.20 0.60 0.70	22(617~960MHz) 2(3400~3800MHz) 22(5150~5925MHz)				

■ TYPICAL ELECTRICAL CHARACTERISTICS

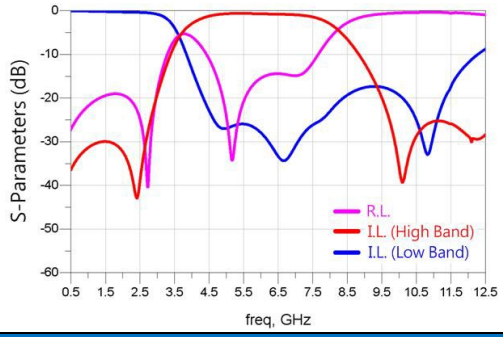
RFDIP1005040L38Q1C



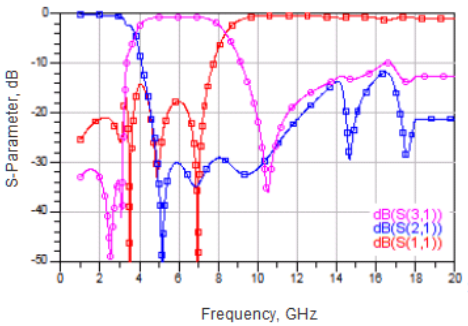
RFDIP1005040L58Q1C



RFDIP1004L10T



RFDIP1608060LCT



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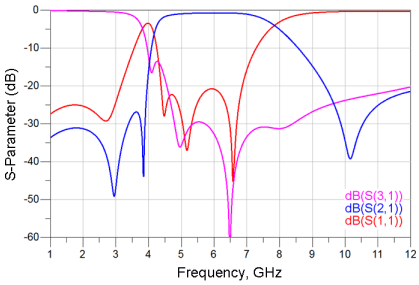

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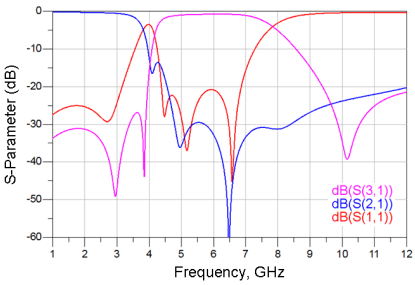

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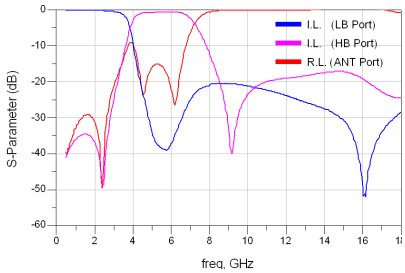

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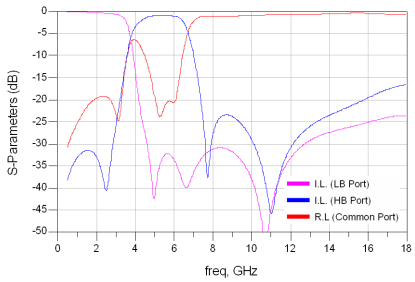

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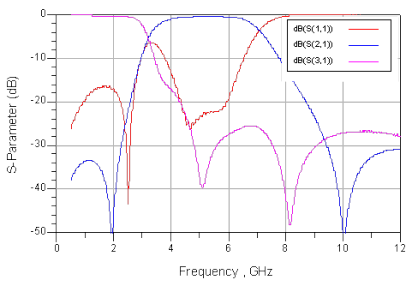

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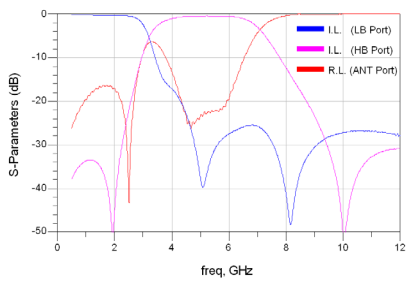
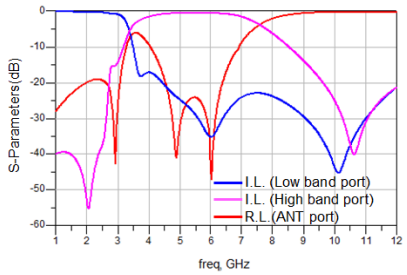


■ TYPICAL ELECTRICAL CHARACTERISTICS

RFDIP1608060LM0T60



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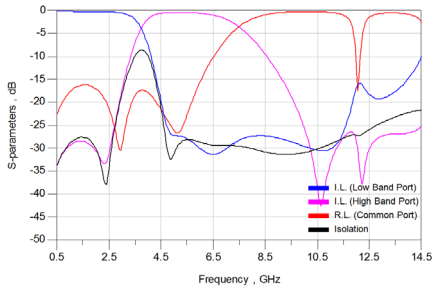

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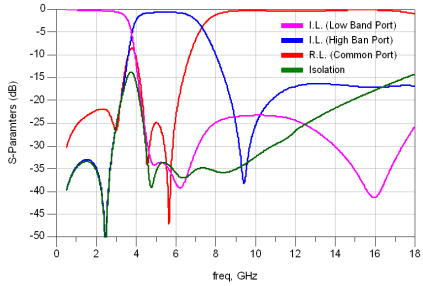

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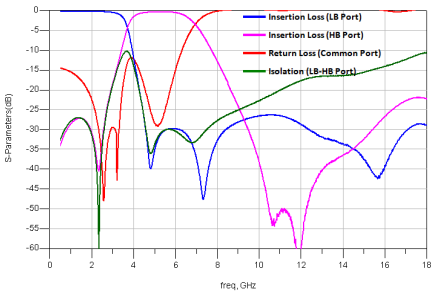

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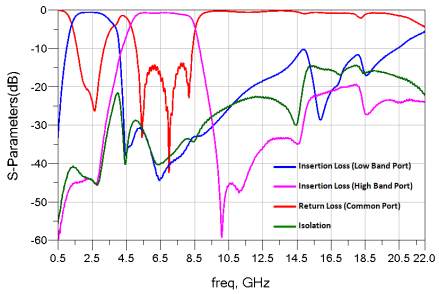

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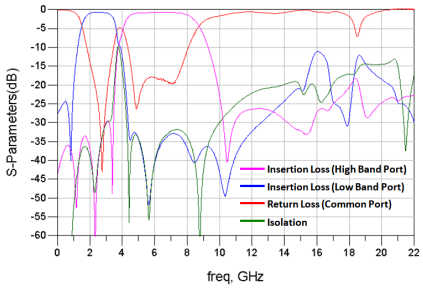

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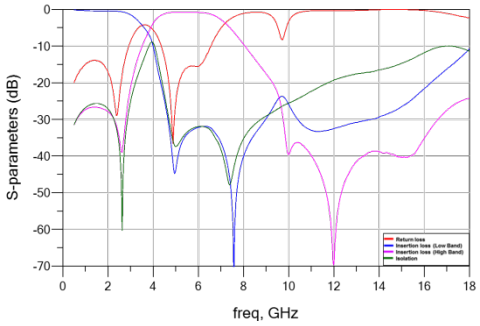

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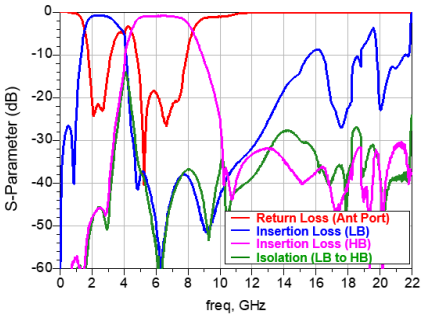

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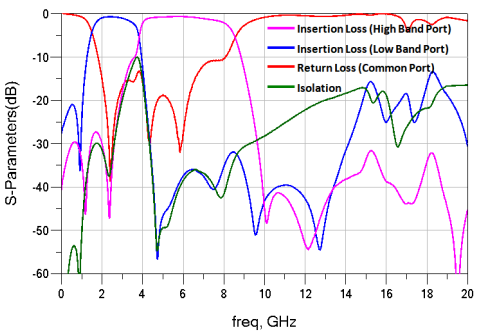

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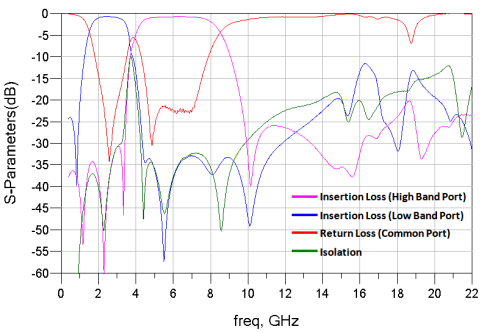

■ TYPICAL ELECTRICAL CHARACTERISTICS

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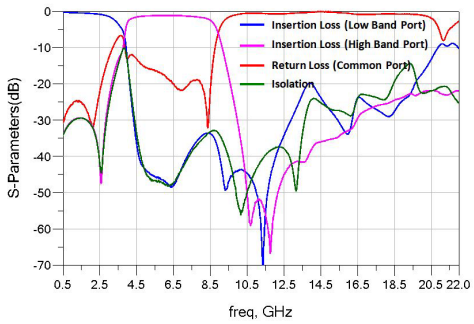

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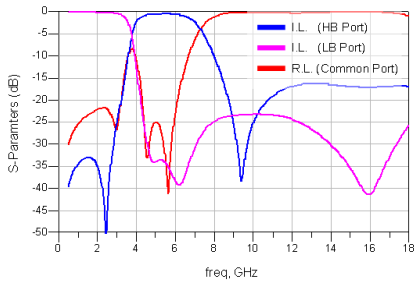

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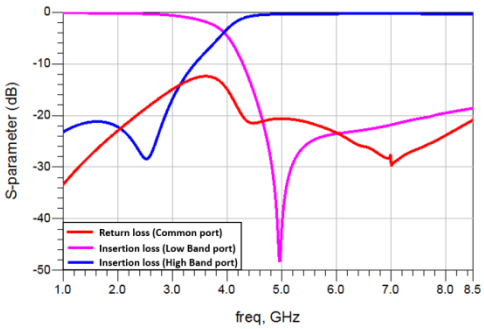

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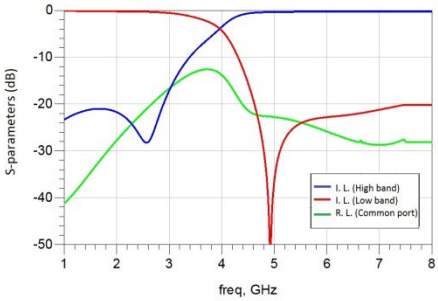

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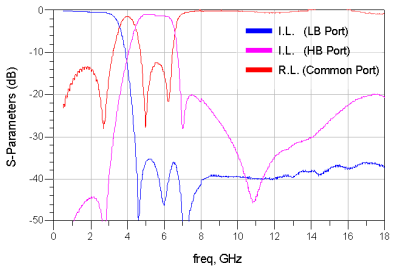

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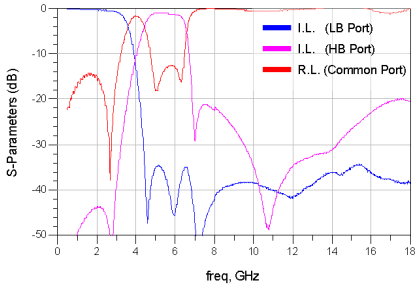

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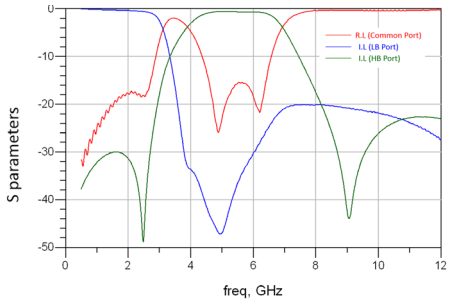

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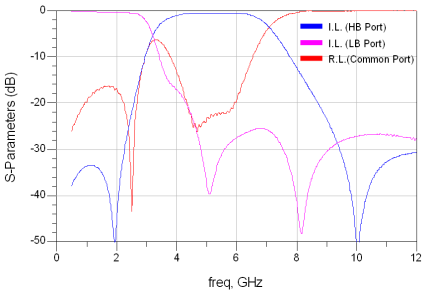

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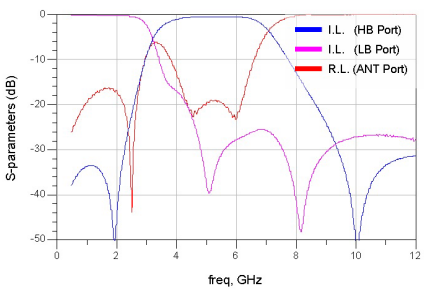

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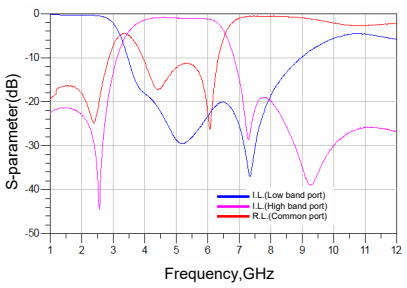
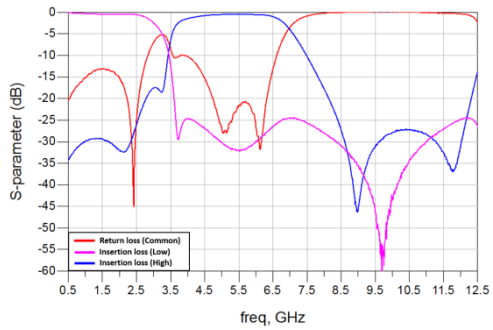


■ TYPICAL ELECTRICAL CHARACTERISTICS

RFDIP1606L80T



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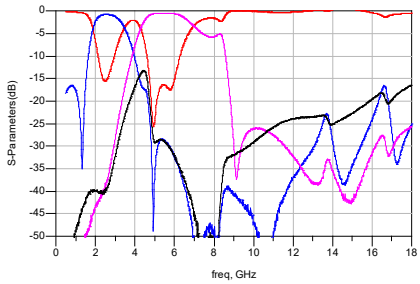

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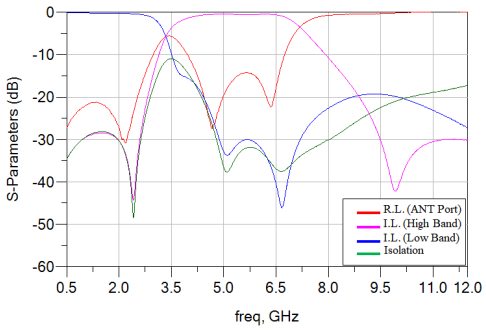

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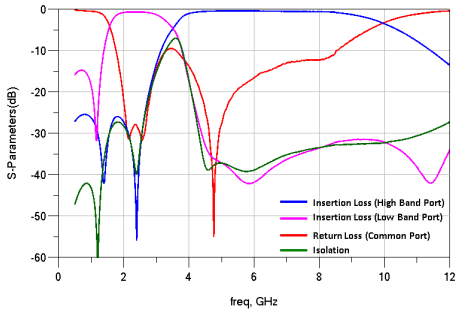

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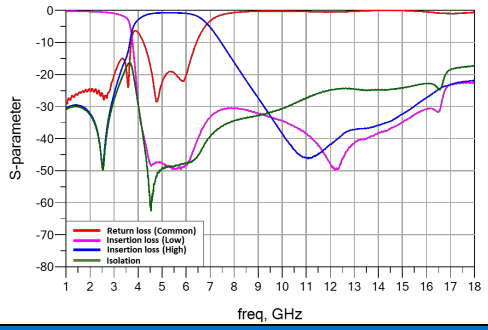

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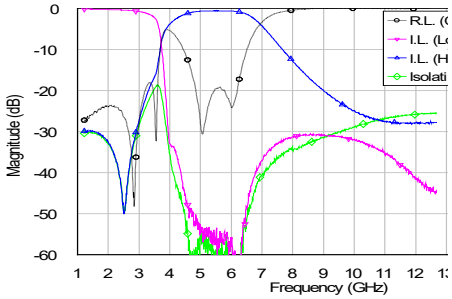

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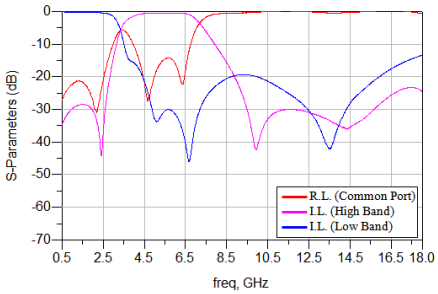

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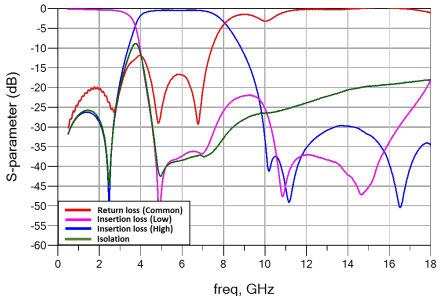

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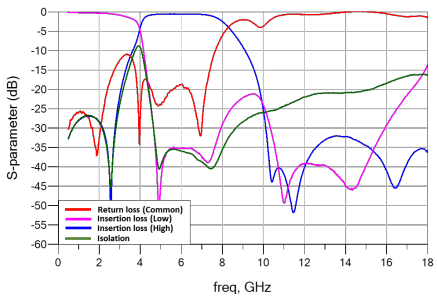

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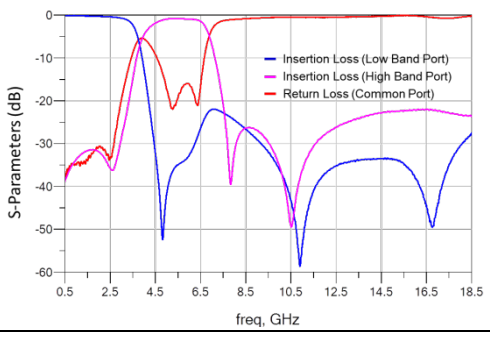

■ TYPICAL ELECTRICAL CHARACTERISTICS

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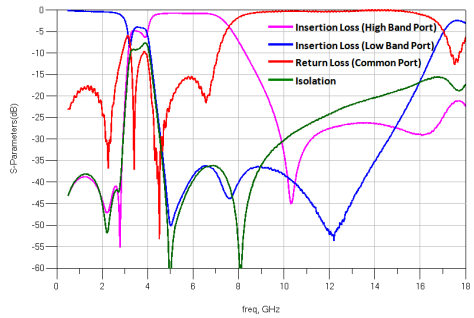

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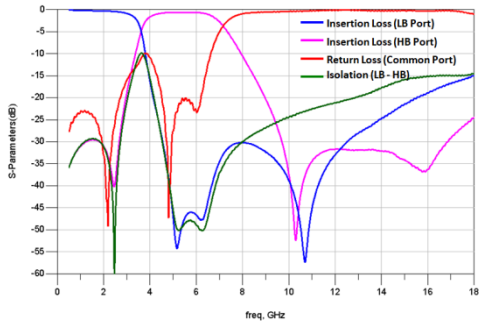

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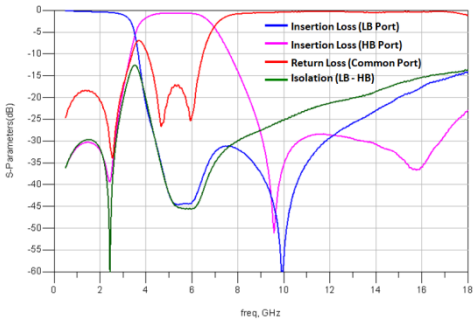

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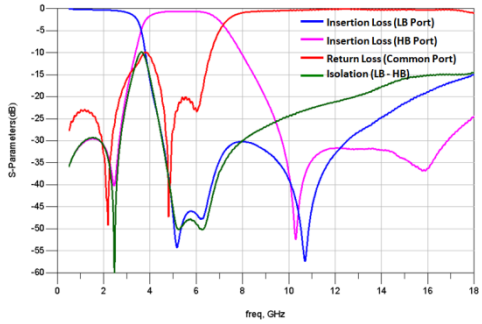

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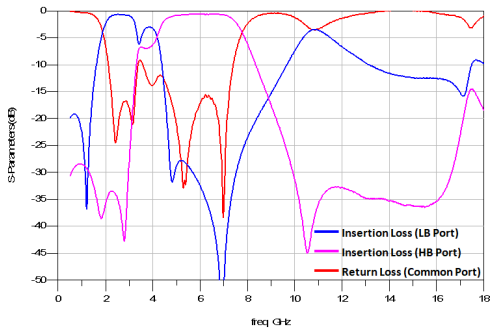

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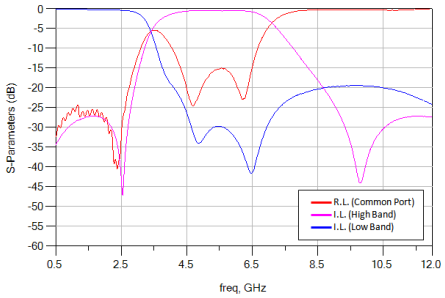

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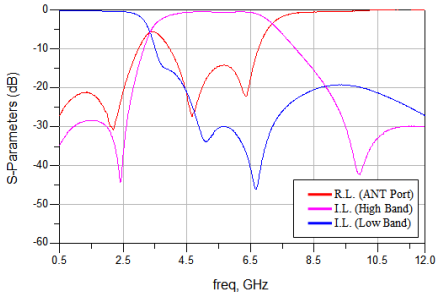

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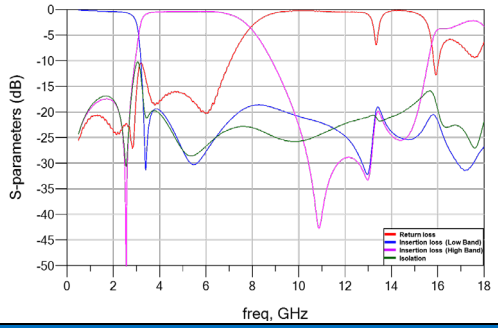

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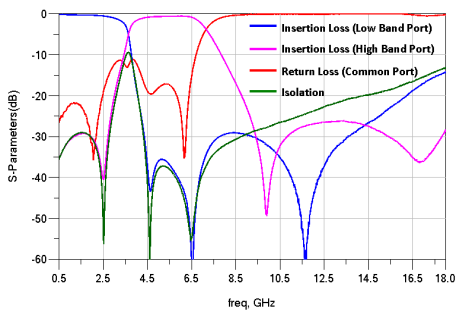

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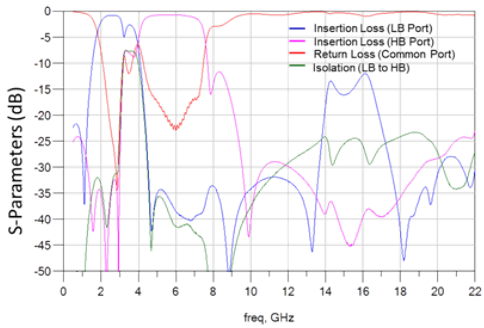
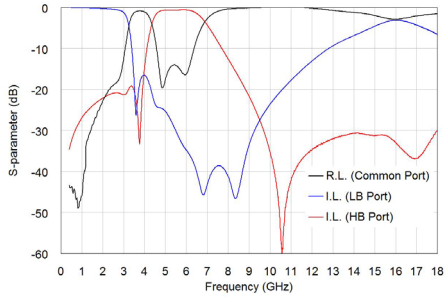


■ TYPICAL ELECTRICAL CHARACTERISTICS

KFDIP2004L157B1U



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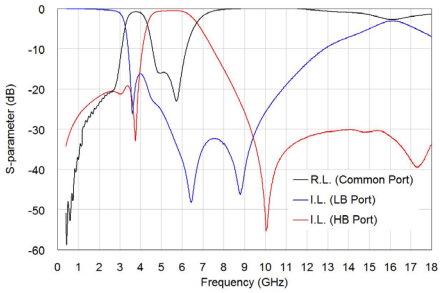

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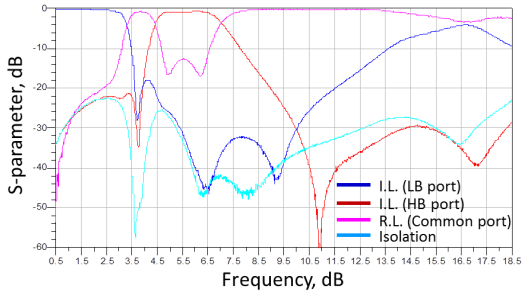

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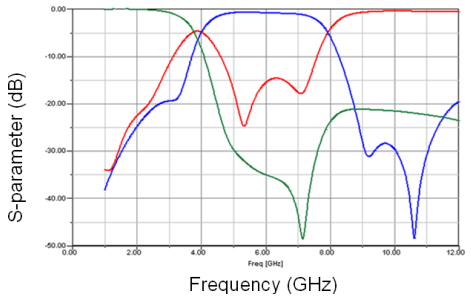

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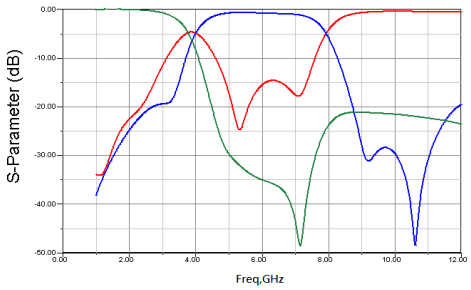

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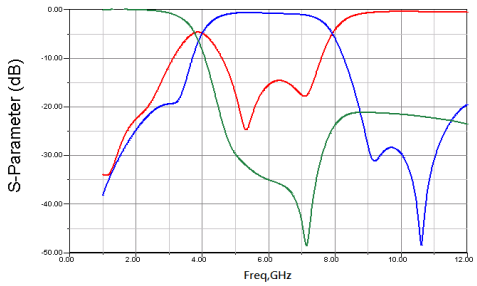

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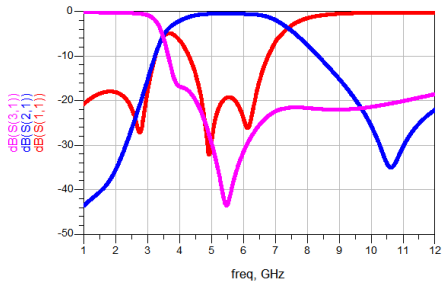

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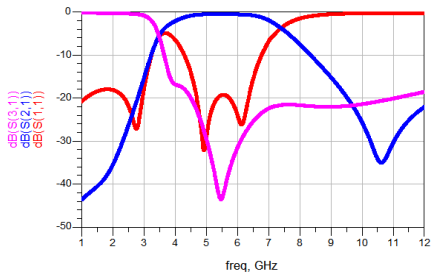

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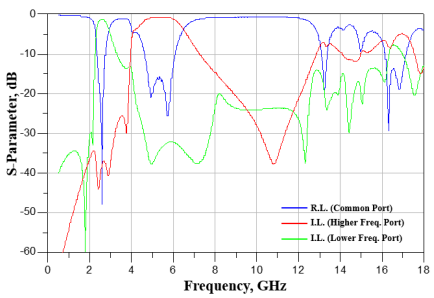

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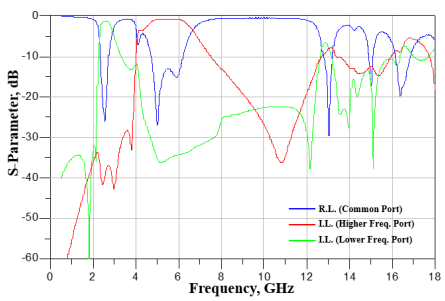

■ TYPICAL ELECTRICAL CHARACTERISTICS

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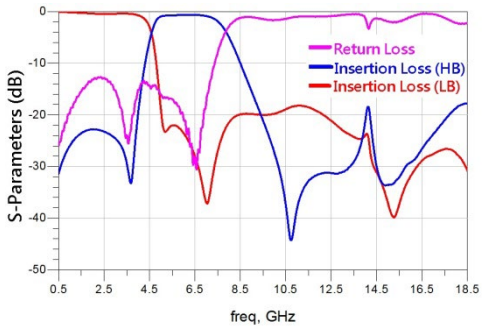

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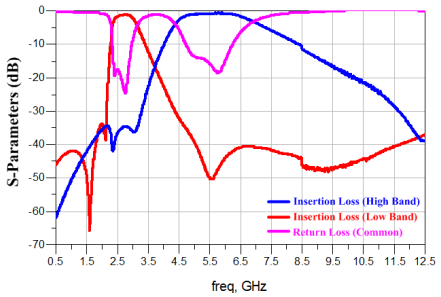

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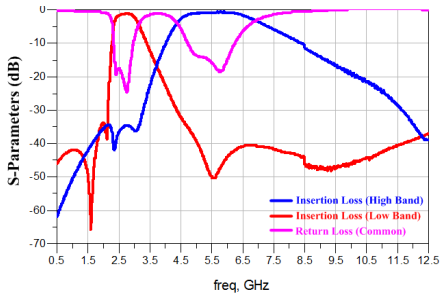

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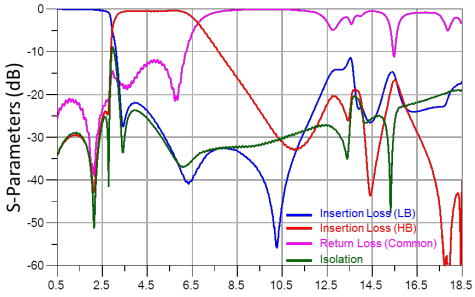

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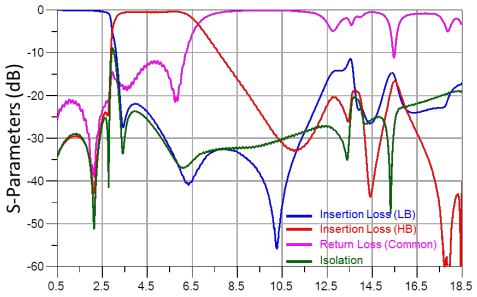

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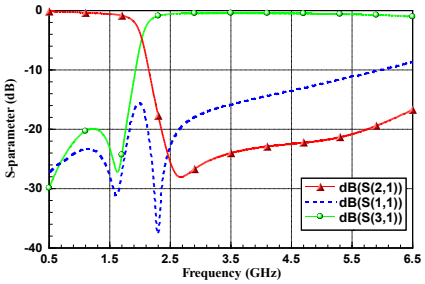

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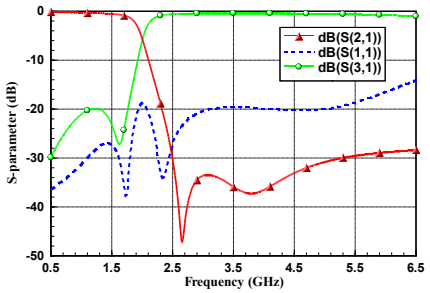

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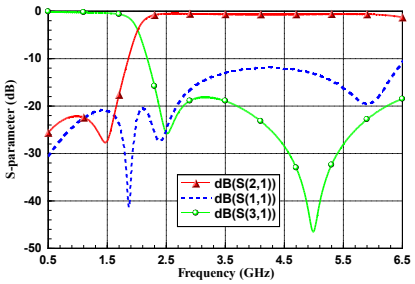

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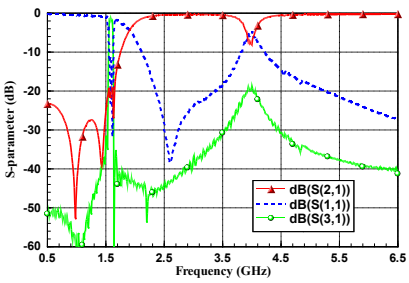

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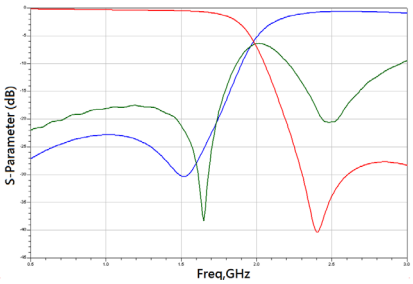

■ TYPICAL ELECTRICAL CHARACTERISTICS

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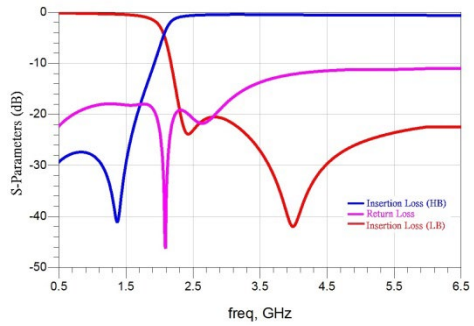

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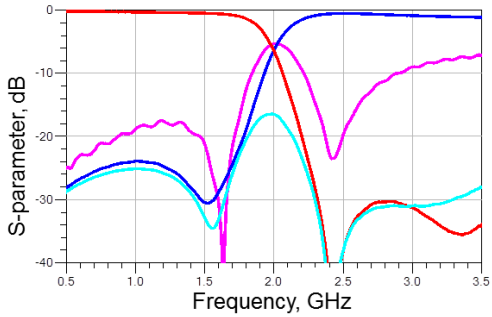

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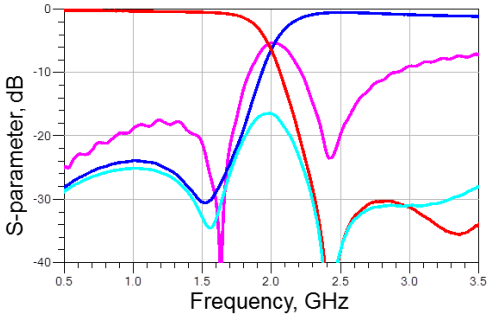

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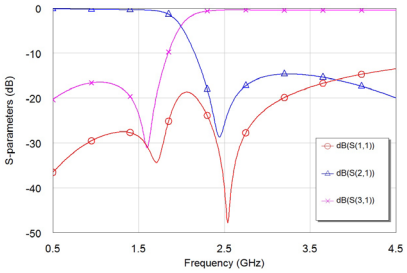

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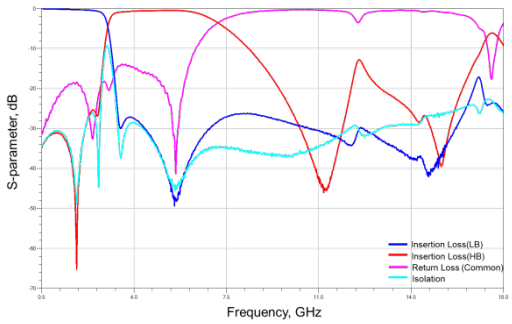

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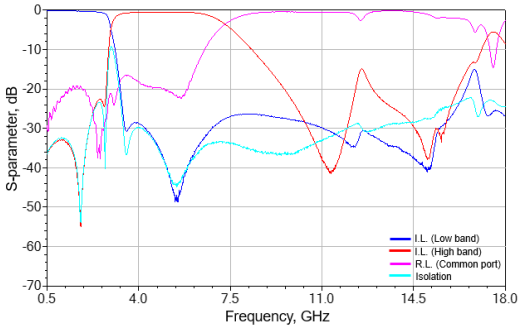

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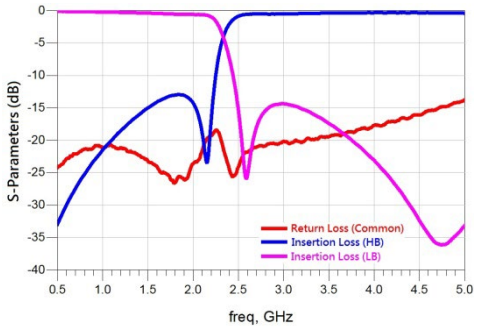

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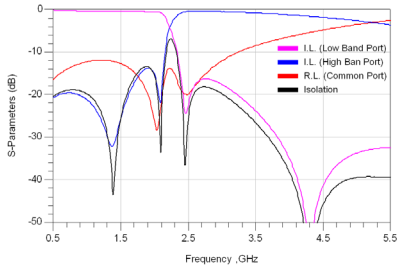

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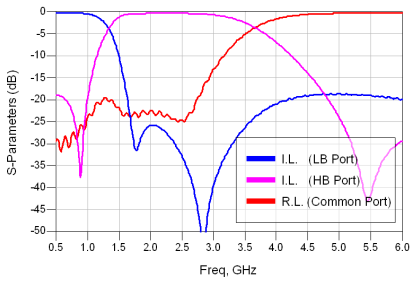

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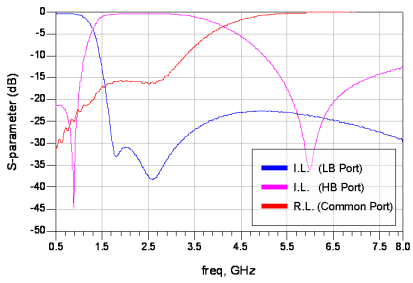

■ TYPICAL ELECTRICAL CHARACTERISTICS

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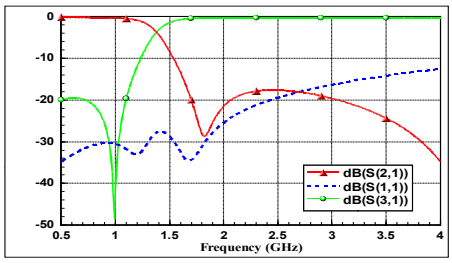
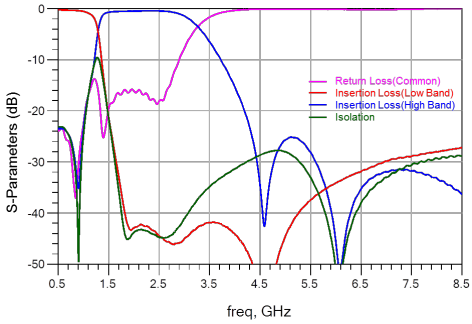
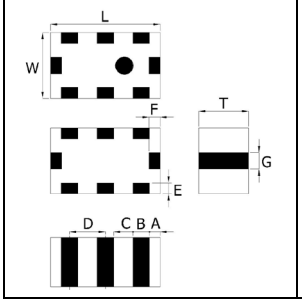
	

- For more information, please contact with local sales representative
- All specifications are subject to change without notice

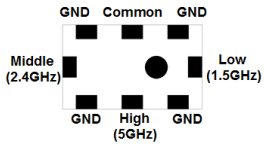
TRIPLEXER

■ STRUCTURE AND PIN ASSOCIATED

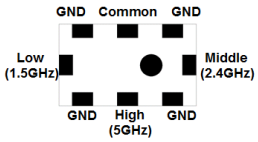
STRUCTURE A



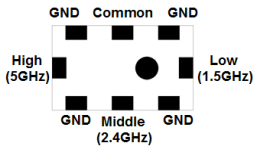
STRUCTURE A-1



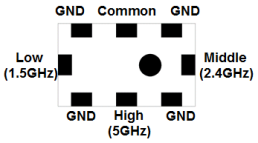
STRUCTURE A-2



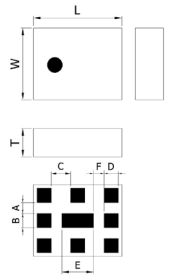
STRUCTURE A-3

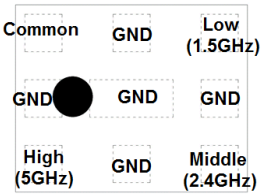


STRUCTURE A-4

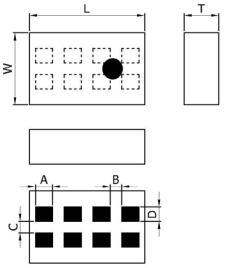


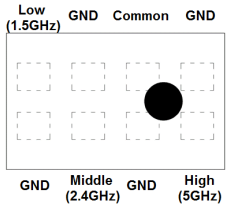
STRUCTURE B





STRUCTURE C





■ STRUCTURE AND DIMENSION

Unit: mm

Structure\ Dimension	L	W	T	A	B	C	D	E	F	G
A	2.00±0.15	1.25±0.15	0.90±0.10	0.20±0.20	0.30±0.20	0.35±0.20	0.65±0.20	0.20±0.20	0.20±0.20	0.30±0.20
B	2.50±0.15	2.00±0.15	0.90±0.10	0.30±0.10	0.40±0.10	0.55±0.10	0.40±0.10	0.90±0.10	0.30±0.10	0.30±0.10
	2.50±0.15	2.00±0.15	0.65 max.	0.30±0.10	0.40±0.10	0.55±0.10	0.40±0.10	0.90±0.10	0.30±0.10	0.30±0.10
C	2.00±0.15	1.25±0.15	0.75 max.	0.30±0.10	0.20±0.10	0.20±0.10	0.25±0.10	0.10±0.10	0.275±0.075	-

■ ELECTRICAL SPECIFICATION

GPS 1.575GHz/ISM 2.4GHz/5GHz band RF application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFTIP2012090T27N3T	1560~1606	50	0.65(25℃) 0.70(-40~+85℃)	20(2400~2500MHz) 20(4900~6000MHz)	10	-	2.00x1.25x0.90	A-2
	2400~2500	50	0.70(25℃) 0.85(-40~+85℃)	10(860~960MHz) 15(1545~1610MHz) 10(3600~3750MHz) 20(4800~6000MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	20(1559~1606 MHz) 20(4800~5000 MHz)		
	4900~5950	50	0.80(25℃) 0.95(-40~+85℃)	25(1559~1606MHz) 35(2400~2500MHz) 12(3400~3600MHz) 12(3600~3900MHz) 10(6900~7200MHz) 10(7200~7800MHz) 25(10300~11700MHz) 15(15300~16200MHz)	10	20(1559~1606 MHz)		

■ ELECTRICAL SPECIFICATION

GPS 1.575GHz/ ISM 2.4GHz/5GHz band RF application

Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFTIP2012090T9T	1560~1606	50	0.7	15(2400~2500MHz) 15(4800~6000MHz)	10	-	2.00x1.25x0.90	A-3
	2400~2500	50	0.8	10(860~960MHz) 15(1545~1605MHz) 8(3600~3750MHz) 20(4800~5000MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10			
	4900~5950	50	0.9	25(860~960MHz) 25(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 38(2400~2500MHz) 8(8100~8800MHz) 15(8820~9800MHz) 22(9800~11900MHz)	10			
RFTIP2012090TLT	1560~1606	50	0.70(25℃) 0.80(-40~+85℃)	14(2400~2500MHz) 15(4800~6000MHz)	10	-	2.00x1.25x0.90	A-1
	2400~2500	50	0.80(25℃) 0.95(-40~+85℃)	10(860~960MHz) 10(1545~1605MHz) 8(3600~3750MHz) 20(4800~5000MHz) 10(7200~7500MHz) 5(9600~10000MHz))	10			
	4900~5950	50	0.90(25℃) 1.10(-40~+85℃)	24(860~960MHz) 24(1545~1605MHz) 25(1710~1990MHz) 25(2170MHz) 0.2(3920~4720MHz) 10(8100~8800MHz) 14(8820~9800MHz) 20(9800~11900MHz)	10			
RFTIP2007T10A8Q1C	1560~1606	50	0.70(25℃) 0.90(-40~+85℃)	0.9(1710~1980MHz) 18(2400~2500MHz) 24(4900~5950MHz)	10	30(2400~2500MHz) 17(4900~5950MHz)	2.00x1.25x0.75	C
	2400~2500	50	1.05(25℃) 1.25(-40~+85℃)	23(1506~1606MHz) 30(4800~5000MHz) 28(7200~7500MHz)	10	30(1560~1606MHz) 25(4900~5950MHz)		
	4900~5100 5150~5950	50	0.90(25℃) 1.10(-40~+85℃) 1.10(25℃) 1.20(-40~+85℃)	28(1560~1606MHz) 20(10300~11700MHz) 16(15300~16200MHz)	10	20(1560~1606MHz) 17(2400~2500MHz)		
RFTIP2007T16AT	1560~1606	50	0.60(25℃) 0.70(-40~+85℃)	19(2400~2500MHz) 27(4900~5950MHz)	10	19(2400~2500MHz) 27(5150~5950MHz)	2.00x1.25x0.75	C
	2400~2500	50	1.00(25℃) 1.15(-40~+85℃)	20(1559~1606MHz) 30(4800~5000MHz) 15(7200~7500MHz)	10	25(1559~1606MHz) 30(5150~5950MHz)		
	4900~5150 5150~5950	50	1.40(25℃) 1.60(-40~+85℃) 1.30(25℃) 1.50(-40~+85℃)	25(1559~1606MHz) 34(2400~2500MHz) 12(3400~3600MHz) 12(3600~3900MHz) 10(6900~7200MHz) 10(7200~7800MHz) 25(10300~11700MHz) 15(15300~16200Hz)	10	25(1559~1606MHz) 30(2400~2500MHz)		

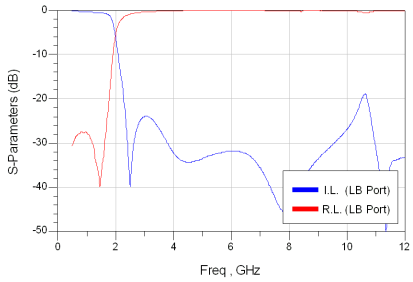
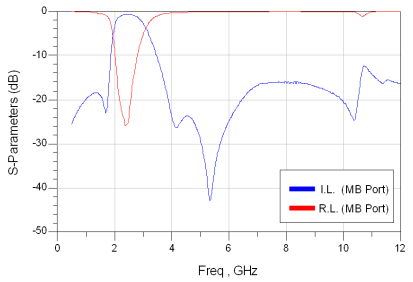
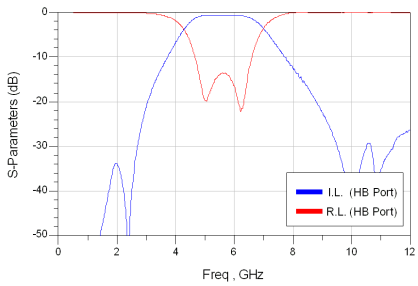
■ ELECTRICAL SPECIFICATION

GPS 1.575GHz/ ISM 2.4GHz/5GHz band RF application

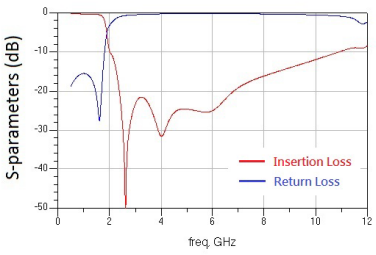
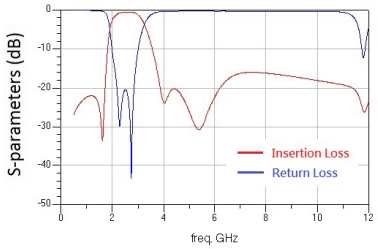
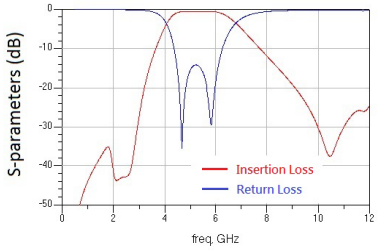
Part Number	Frequency (MHz)	Impedance (Ω)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB) Min	Isolation	Size (mm)	Structure
RFTIP2009T24AT	1560~1610	50	0.70(25℃) 0.90(-40~+85℃)	13(2400~2500MHz) 13(4900~5950MHz)	10	-	2.00x1.25x0.90	A-4
	2400~2500	50	0.60(25℃) 0.85(-40~+85℃)	13(1560~1610MHz) 13(4900~5950MHz)	10			
	4900~5950	50	0.80(25℃) 1.00(-40~+85℃)	20(1560~1610MHz) 25(2400~2500MHz) 20(9800~11900MHz)	10			
RFTIP2009T27BT	1560~1606	50	0.70(25℃) 0.80(-40~+85℃)	14(2400~2500MHz) 15(4800~6000MHz)	10	18(2400~2500MHz) 18(5150~5850MHz)	2.00x1.25x0.90	A-1
	2400~2500	50	0.73(25℃) 0.81(-40~+85℃)	10(3600~3750MHz) 20(4800~5000MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	15(1560~1610MHz) 20(5150~5850MHz)		
	4900~5950	50	0.80(25℃) 0.92(-40~+85℃)	24(860~960MHz) 24(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)	10	20(1560~1610MHz) 20(2400~2500MHz)		
RFTIP2009T28AT	1560~1606	50	0.70(25℃) 0.90(-40~+85℃)	14(2400~2500MHz) 15(4800~6000MHz)	10	18(2400~2500MHz) 18(5150~5850MHz)	2.00x1.25x0.90	A-2
	2400~2500	50	0.73(25℃) 0.93(-40~+85℃)	10(3600~3750MHz) 20(4800~5000MHz) 10(7200~7500MHz) 10(9600~10000MHz)	10	15(1560~1610MHz) 20(5150~5850MHz)		
	4900~5950	50	0.80(25℃) 1.00(-40~+85℃)	24(860~960MHz) 24(1545~1605MHz) 25(1710~1990MHz) 30(2170MHz) 10(8100~8800MHz) 15(8820~9800MHz) 25(9800~11900MHz)	10	20(1560~1610MHz) 20(2400~2500MHz)		
RFTIP2506T10A8Q1C	500~960	50	0.54(500~798 MHz) 0.60(815~894 MHz) 0.63(880~915 MHz) 0.65(915~960 MHz)	12.0(1427~2690MHz) 24.0(3300~3400MHz) 27.0(3400~3800MHz) 30.0(3800~4200MHz) 30.0(4400~5000MHz) 30.0(5150~5925MHz)	10	17.0(500~960MHz) 14.0(1427~2690MHz) 14.0(3300~5925MHz)	2.00x1.25x0.60	B
	1427~2690	50	1.00(1427~1511 MHz) 0.85(1710~1880 MHz) 0.85(1880~1920 MHz) 0.85(1930~2200 MHz) 0.85(2300~2400 MHz) 1.00(2496~2690 MHz)	18.0(500~960MHz) 9.0(3300~3400MHz) 20.0(3400~3800MHz) 20.0(3800~4200MHz) 24.0(4400~5000MHz) 21.0(5150~5925MHz)	10	20.0(500~960MHz) 30.0(1427~2690MHz) 30.0(3300~5925MHz)		
	3300~5925	50	1.45(3300~3400 MHz) 0.95(3400~3600 MHz) 0.80(3600~3800 MHz) 0.70(3800~4200 MHz) 0.70(4400~5000 MHz) 0.80(5150~5925 MHz)	20.0(500~960MHz) 11.0(1427~2690MHz) 14.0(10300~11850MHz)	10	30.0(500~960MHz) 14.0(1427~2690MHz) 11.0(3300~5925MHz)		
RFTIP2520090T3T	698~960	50	0.70(25℃) 0.80(-40~+85℃)	20(1710~2200 MHz) 20(2500~2690 MHz)	10	20(1710~2200 MHz) 20(2500~2690 MHz)	2.50x2.00x0.90	B
	1710~2200	50	1.40(25℃) 1.60(-40~+85℃)	20(698~960 MHz) 15(2500~2690 MHz)	10	18(698~960 MHz) 18(2500~2690 MHz)		
	2500~2690	50	1.80(25℃) 2.00(-40~+85℃)	15(698~960 MHz) 15(1710~2200 MHz)	10	20(698~960 MHz) 20(1710~2200 MHz)		

TYPICAL ELECTRICAL CHARACTERISTICS

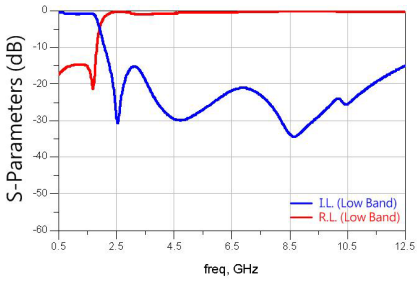
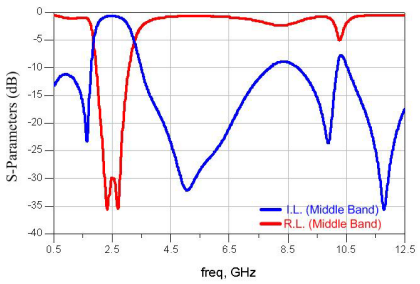
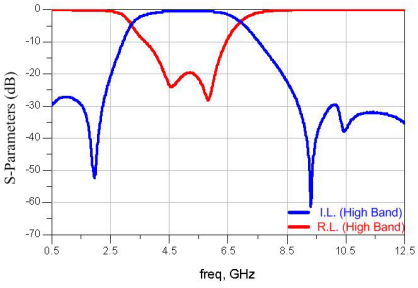
RFTIP2012090T27N3T

Low band	Middle band	High band
		

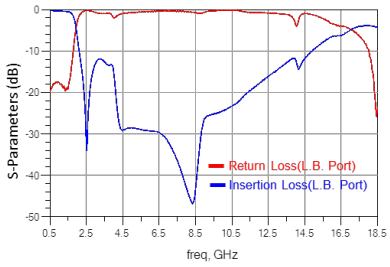
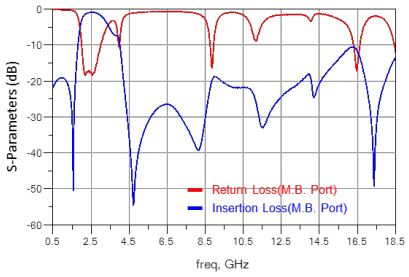
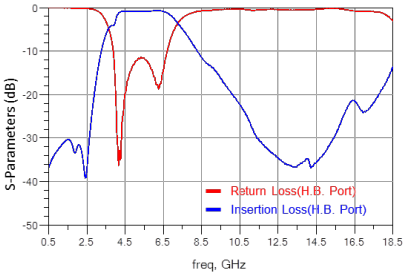
RFTIP2012090T9T

Low band	Middle band	High band
		

RFTIP2012090TLT

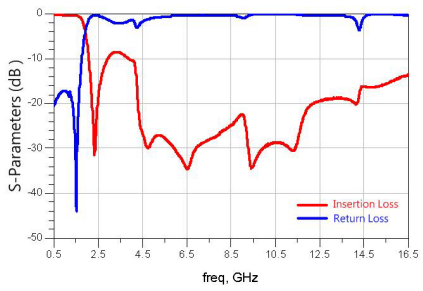
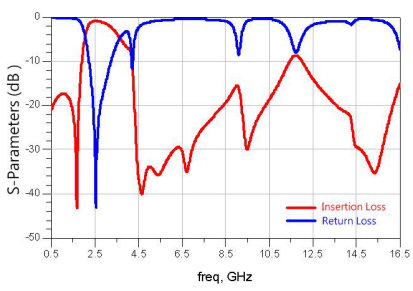
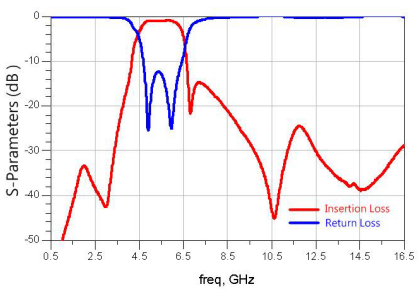
Low band	Middle band	High band
		

RFTIP2007T10A8Q1C

Low band	Middle band	High band
		

TYPICAL ELECTRICAL CHARACTERISTICS

RFTIP2007T16AT

Low band	Middle band	High band
		

RFTIP2009T24AT

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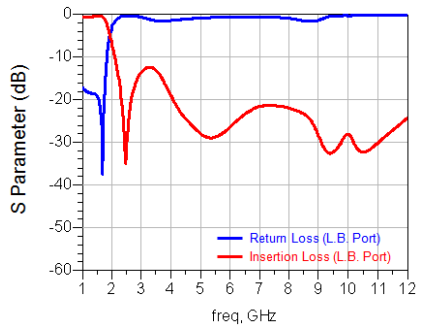	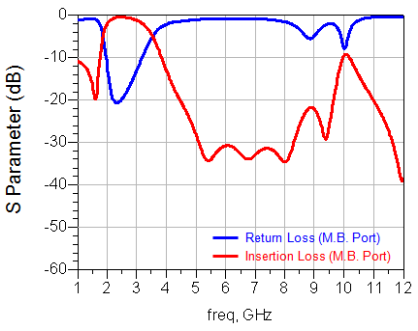	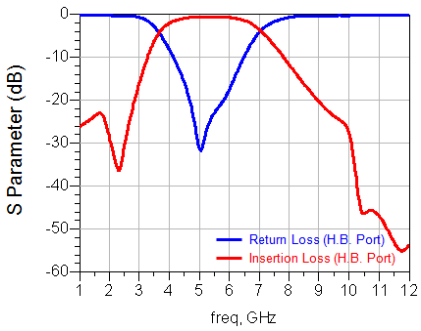

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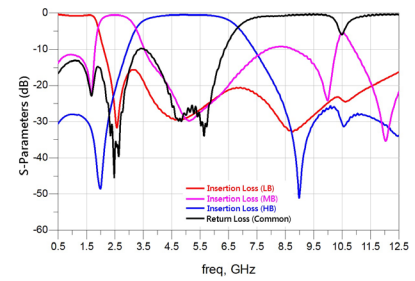

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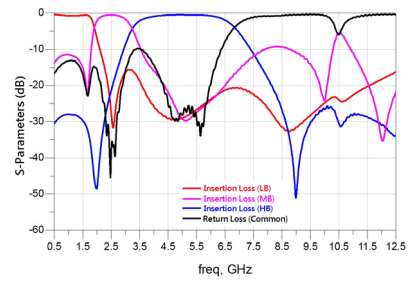

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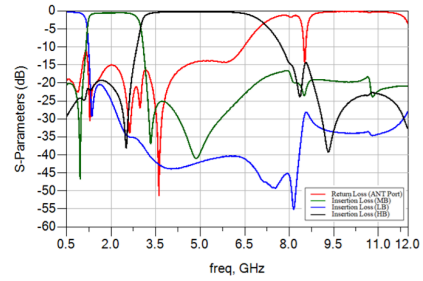
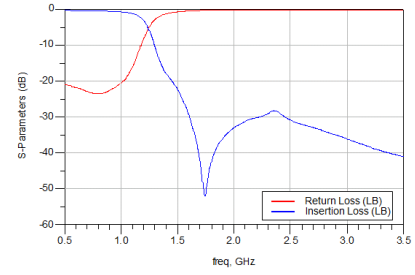
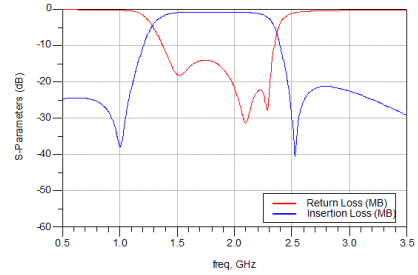
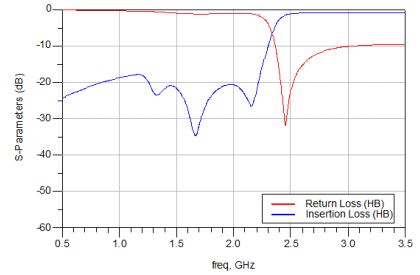


RFTIP2520090T3T

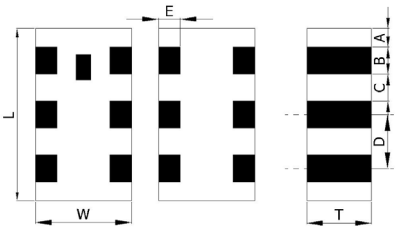
Low band	Middle band	High band
		

- For more information, please contact with local sales representative
- All specifications are subject to change without notice

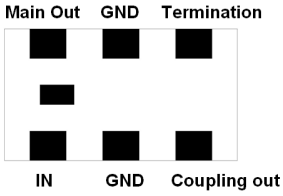
COUPLER

■ STRUCTURE AND PIN ASSOCIATED

STRUCTURE A



STRUCTURE A-1



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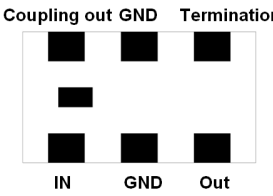
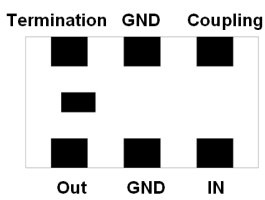
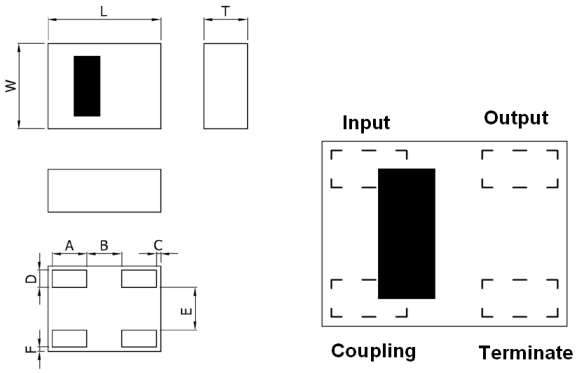


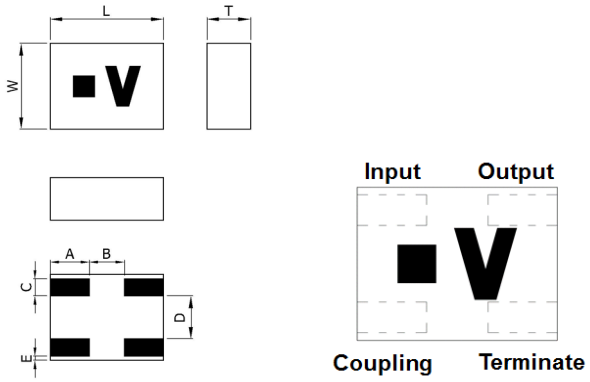
STRUCTURE A-3



STRUCTURE B



STRUCTURE C



■ STRUCTURE AND DIMENSION

Unit: mm

Structure\ Dimension	L	W	T	A	B	C	D	E	F
A	1.60±0.10	0.80±0.10	0.60±0.10	0.10±0.10	0.30±0.10	0.25±0.10	0.55±0.10	0.20±0.10	-
	1.60±0.10	0.80±0.10	0.60±0.10	0.175±0.10	0.25±0.10	0.25±0.10	0.50±0.10	0.20±0.10	-
B	0.65±0.04	0.50±0.04	0.35±0.10	0.20±0.04	0.20±0.04	0.025±0.025	0.10±0.04	0.25±0.04	0.025±0.025
C	0.65±0.10	0.50±0.10	0.35±0.05	0.225±0.10	0.20±0.05	0.10±0.05	0.25±0.05	0.025±0.025	-

■ ELECTRICAL SPECIFICATION

ISM Band 2.4GHz Application

Part Number	Frequency (MHz)	Insertion Loss (dB)	Coupling in BW	Directivity in BW dB (min.)	Isolation in BW dB (min.)	VSWR	Dimension (mm³)	Structure
RFCPL1806B2450T	2400~2500	1.83	6.5 ± 1.0 dB	-	21.0 dB min	1.5	1.60x1.80x0.60	A-1
RFCPL1810B2450T	2400~2500	0.74	10.0 ±1.0 dB	-	22.0 dB min	1.8	1.60x1.80x0.60	A-1
TFCPL0605B24508Q1C	2400~2500	0.32(25℃) 0.40(-40~+85℃)	14.6 ± 1.0 dB	20.0 dB min.	-	1.3	0.60x0.50x0.35	B

5GHz BAND WORKING FREQUENCY

Part Number	Frequency (MHz)	Insertion Loss (dB)	Coupling in BW	Directivity in BW dB (min.)	Isolation in BW dB (min.)	VSWR	Dimension (mm³)	Structure
RFCPL0605030K0T	5925~7125	0.4(25℃) 0.60(-40~+85℃)	17 ± 1.5 dB	15 dB min.	-	1.5	0.65x0.50x0.35	C

ISM Band 2.4/5GHz Application

Part Number	Frequency (MHz)	Insertion Loss (dB)	Coupling in BW	Directivity in BW dB (min.)	Isolation in BW dB (min.)	VSWR	Dimension (mm³)	Structure
TFCPL0605030L18A1U	2400~2500	0.5	19.0±1.5dB	15 dB min.	-	1.3	0.65x0.50x0.35	B
	4900~5850	0.5	12.5±1.5dB	15 dB min.	-	1.3		
TFCPL0605030L28Q1C	2400~2500	0.2	19.3±0.7dB	15 dB min.	-	1.3	0.65x0.50x0.35	B
	5150~5850	0.5	13.0±1.5dB	15 dB min.	-	1.3		
RFCPL0605030L58Q1C	2400~2500	0.3	19.0±1.5dB	14.5 dB min.	-	1.3	0.65x0.50x0.35	C
	4900~5850	0.6	13.0±2.0dB	13.5dB min.	-	1.8		

ISM Band 2.4/5GHz Application

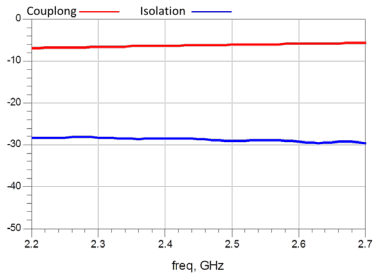
Part Number	Frequency (MHz)	Insertion Loss (dB)	Coupling in BW	Directivity in BW dB (min.)	Isolation in BW dB (min.)	VSWR	Dimension (mm³)	Structure
RFCPL0605030L6T	2400~2500	0.40(25℃) 0.45(-40~+85℃)	21.5±1.5dB	15 dB min.	-	1.3	0.65x0.50x0.35	C
	4900~5850	0.40(25℃) 0.45(-40~+85℃)	15.0±1.5dB	15 dB min.	-	1.3		
RFCPL0605030L9T	2400~2500	0.20(25℃) 0.25(-40~+85℃)	19.3±0.7dB	15 dB min.	-	1.3	0.65x0.50x0.35	C
	4900~5850	0.50(25℃) 0.55(-40~+85℃)	13.0±1.5dB	15 dB min.	-	1.3		
RFCPL0605030LFT	2400~2500	0.22(25℃) 0.24(-40~+85℃)	21.5±1.0dB	14 dB min.	-	1.3	0.65x0.50x0.35	C
	4900~5850	0.32(25℃) 0.35(-40~+85℃)	15.0±1.2dB	14 dB min.	-	1.3		
RFCPL0605030LHT	2400~2500	0.40(25℃) 0.45(-40~+85℃)	21.5±1.5dB	15 dB min.	-	1.3	0.65x0.50x0.35	C
	4900~5850	0.40(25℃) 0.45(-40~+85℃)	15.0±1.5dB	15 dB min.	-	1.3		

LTE BAND APPLICATION

Part Number	Frequency (MHz)	Insertion Loss (dB)	Coupling in BW	Directivity in BW dB (min.)	Isolation in BW dB (min.)	VSWR	Dimension (mm³)	Structure
RFCPL1608070P08Q1C	698~2690	0.20(698~960MHz) 0.22(1427.9~2170MHz) 0.25(2300~2690MHz)	23.0~27.0(698~915MHz) 21.5~26.5(1427.9~2025MHz) 22.5~27.5(2300~2620MHz)	20.	-	1.5	1.60x1.80x0.60	A-2
RFCPL1608070P28Q1C	698~2690	0.20(698~960MHz) 0.22(1427.9~2170MHz) 0.25(2300~2690MHz)	23.0~27.0(698~915MHz) 21.5~26.5(1427.9~2025MHz) 22.5~27.5(2300~2620MHz)	20	-	1.5	1.60x1.80x0.60	A-2
RFCPL1608070P38Q1C	698~2690	0.20(698~960MHz) 0.22(1710~2170MHz) 0.25(2300~2690MHz)	23.0~27.0(698~915MHz) 21.5~26.5(1710~2025MHz) 22.5~27.5(2300~2620MHz)	20	-	1.45	1.60x1.80x0.60	A-3
RFCPL1608070PM9T16	700~2700	0.2(700~790MHz) (Typ.0.07) 0.2(820~900MHz) (Typ.0.07) 0.3(1701~2100MHz) (Typ.0.15) 0.3(2300~2700MHz) (Typ.0.15)	24~27(700~790MHz) 24~27(820~900MHz) 20~23(1701~2100MHz) 20~23(2300~2700MHz)	-	40(700~790MHz) 40(820~900MHz) 35(1701~2100MHz) 35(2300~2700MHz)	1.45	1.60x1.80x0.60	A-1

■ TYPICAL ELECTRICAL CHARACTERISTICS

RFCPL1806B2450T



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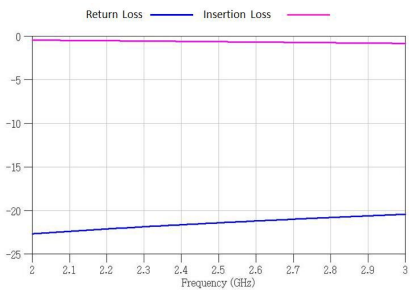

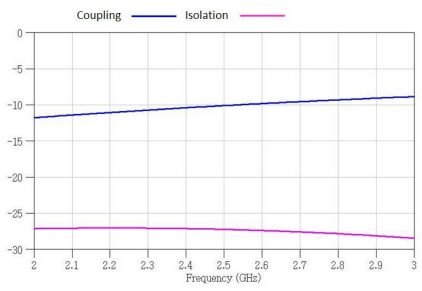

TYPICAL ELECTRICAL CHARACTERISTICS

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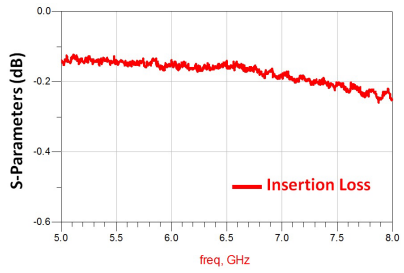

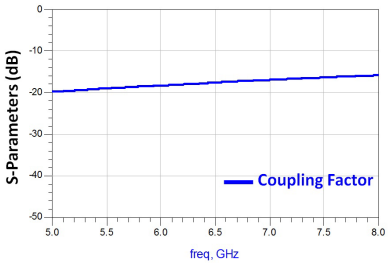

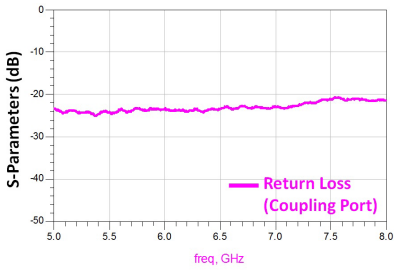

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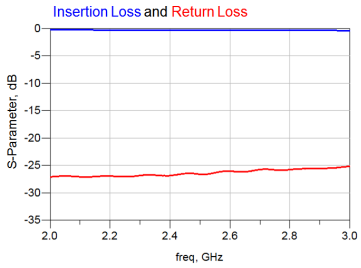

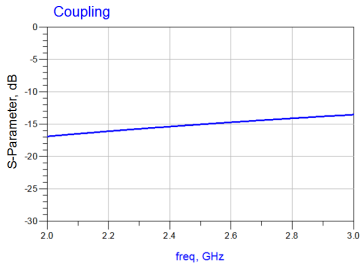

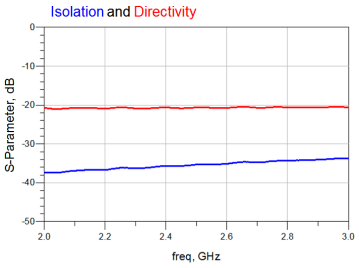

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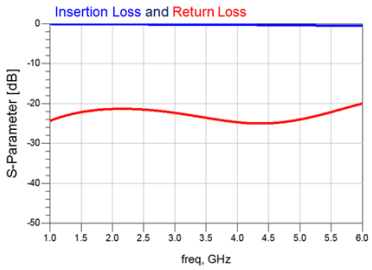

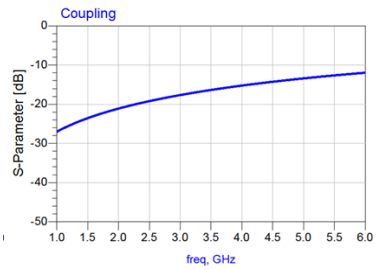

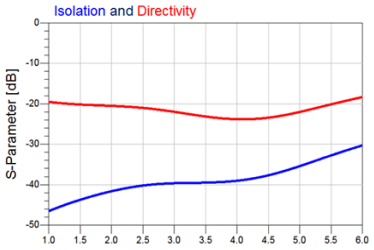

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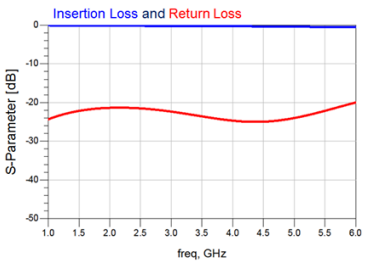

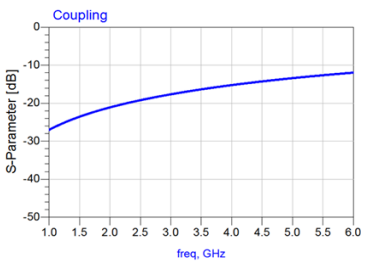

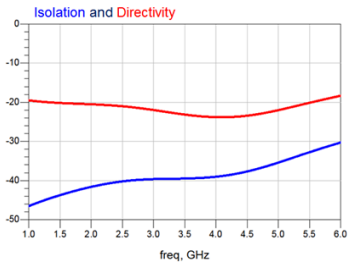

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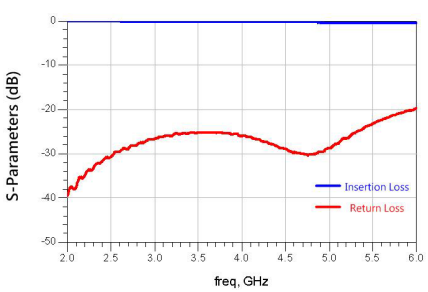
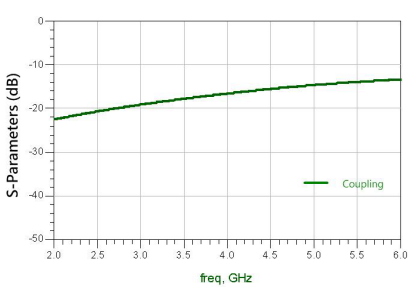
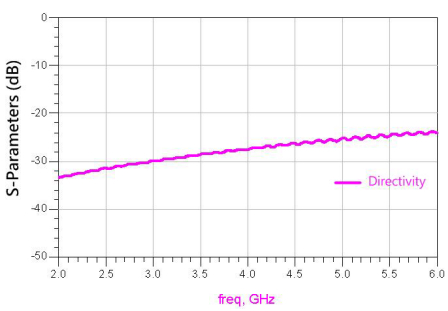
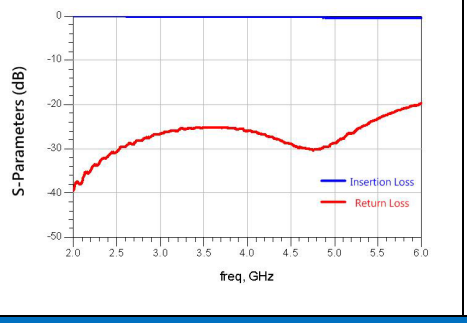


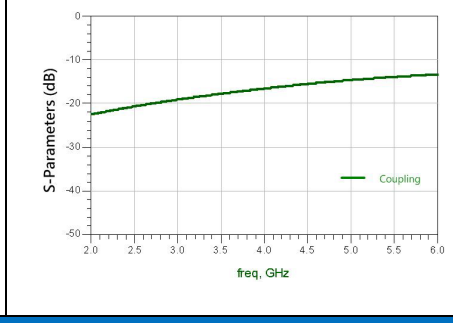


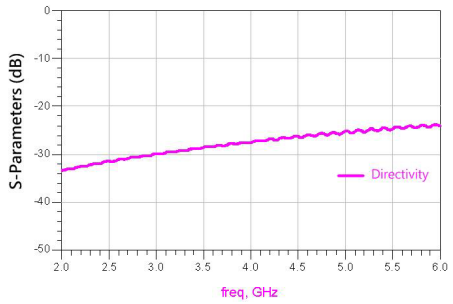


TYPICAL ELECTRICAL CHARACTERISTICS

RFCPL0605030L6T







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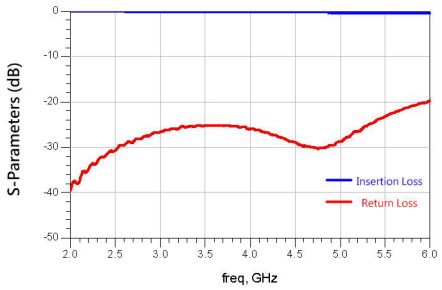

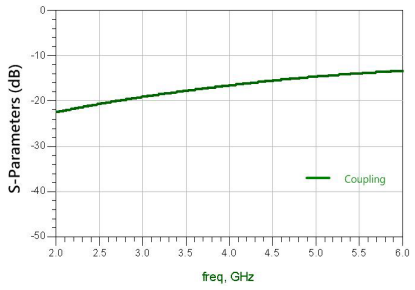

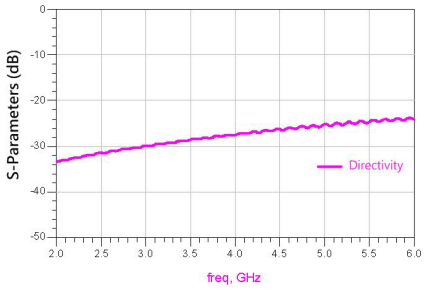

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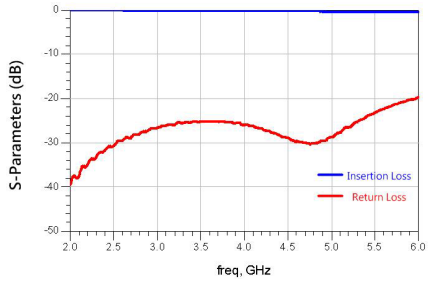

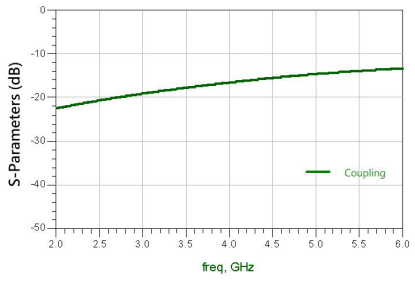

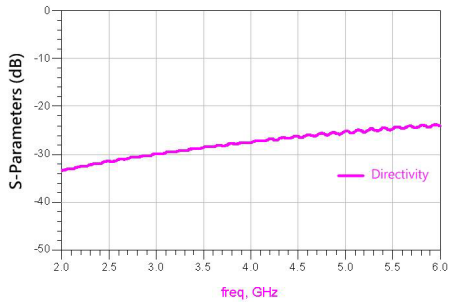

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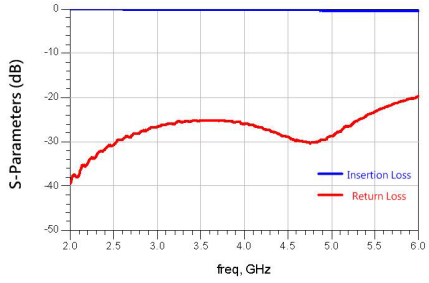

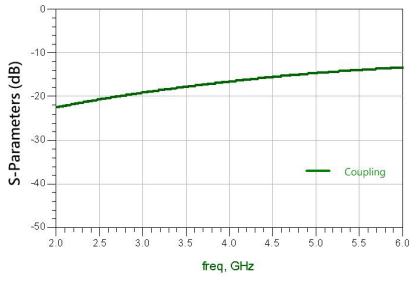

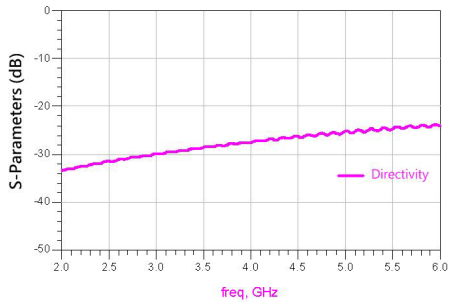

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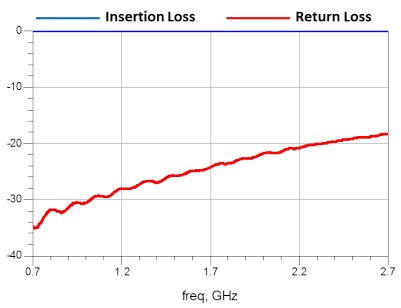

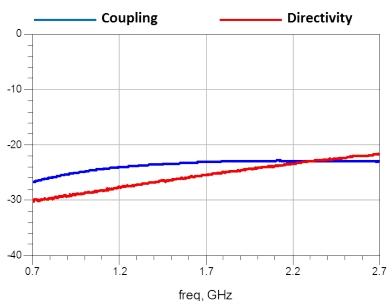

TYPICAL ELECTRICAL CHARACTERISTICS

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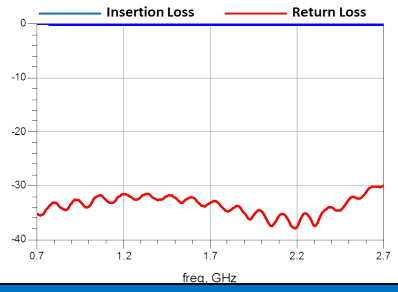

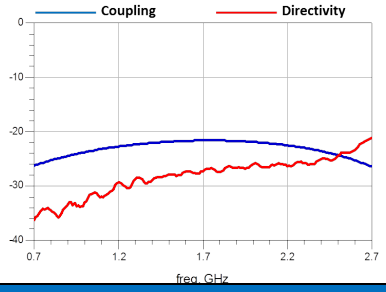

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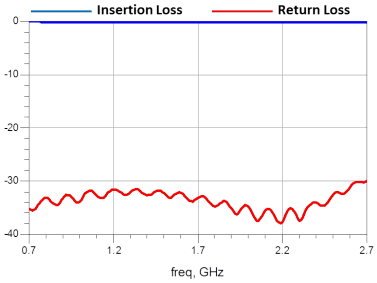

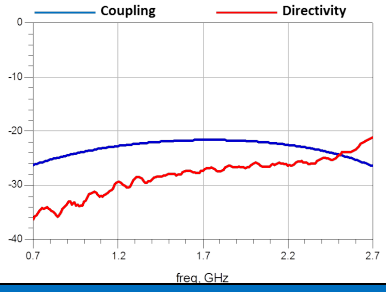

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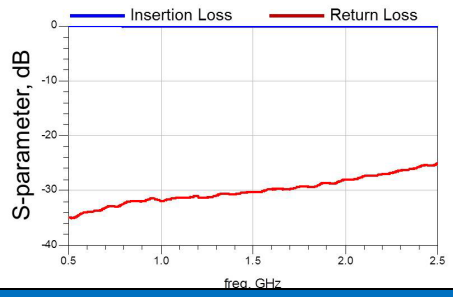

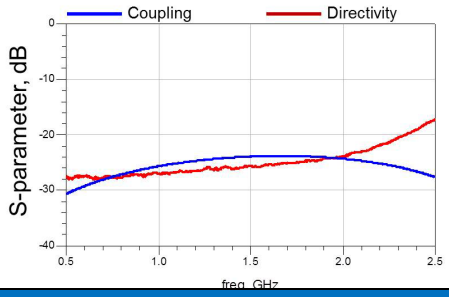

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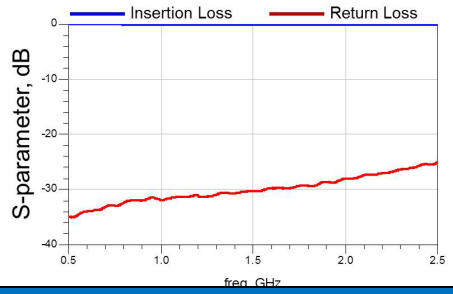

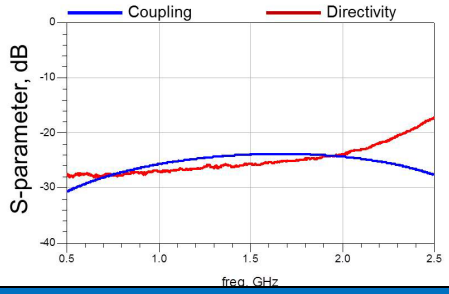

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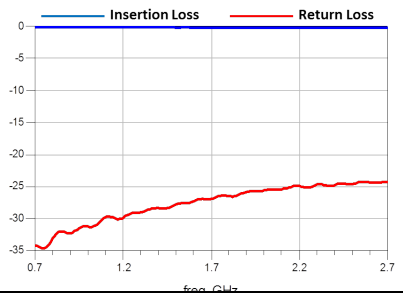

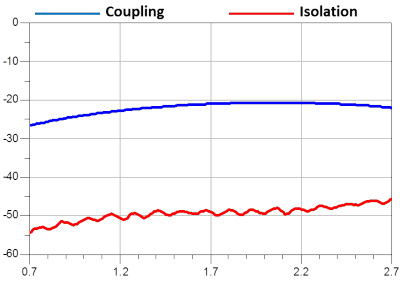

- For more information, please contact with local sales representative
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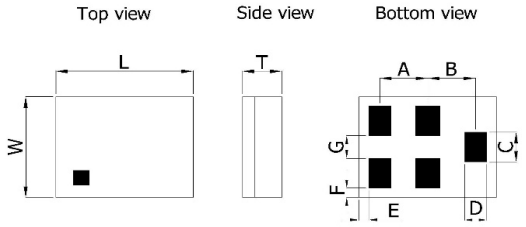
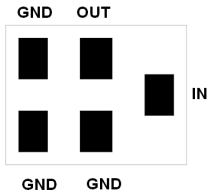
SAW Filter

■ STRUCTURE AND PIN ASSOCIATED

STRUCTURE A





■ STRUCTURE AND DIMENSION

Unit: mm

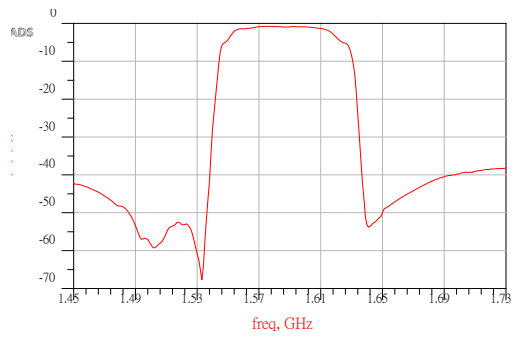
Structure\ Dimension	L	W	T	A	B	C	D	E	F	G	H	I
A	1.10±0.10	0.90±0.10	0.55max.	0.40	0.40	0.25	0.20	0.05	0.075	0.25	-	-

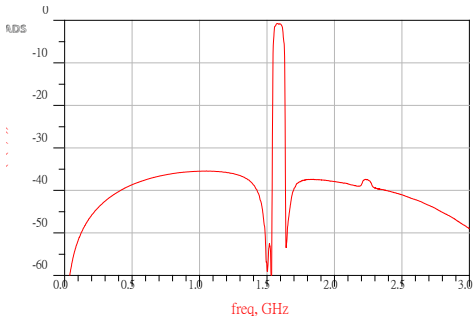
■ ELECTRICAL SPECIFICATION

Application	Function	Pmax(dBm)	Part Number	Band	Frequency(MHz)	Insertion lss(dB) Typ	Package (mm)	STRUCTURE
GPS/Wifi	Saw Filter	15	SF11091582CT01T	GPS+G+C	1559~1563 1574~1576 1597~1605	1.5 dB @1559~1563MHz 1.0 dB @1574~1576MHz 1.5 dB @1597~1605MHz	1.1 x 0.9	A
	Saw Filter	15	SF11091176CT01T	GPS_L5	1164~1189	1.0 dB @1164~1189MHz	1.1 x 0.9	A
WiFi	Saw Filter	25	SF11092442AT01T	WiFi 2.4	2401~2483	1.6 dB @2402~2421MHz 1.7 dB @2407~2471MHz 1.8 dB @2457~2476MHz 2.0 dB @2462~2482MHz 2.0 dB @2401~2483MHz	1.1 x 0.9	A
TDD LTE	Saw Filter	15	SF110881B5T01T	B5	869~894	1.3 dB @869~894MHz	1.1 x 0.9	A
	Saw Filter	15	SF112350B40T02T	B40	2300~2400	1.8 dB @2300~2400MHz	1.1 x 0.9	A
	Saw Filter	15	SF111962B25T01T	B25	1930~1994	2.4 dB @1930~1994MHz	1.1 x 0.9	A
	Saw Filter	15	SF110876B26T01T	B26	859~894	2.0 dB @859~894MHz	1.1 x 0.9	A

■ TYPICAL ELECTRICAL CHARACTERISTICS

SF11091582CT01T





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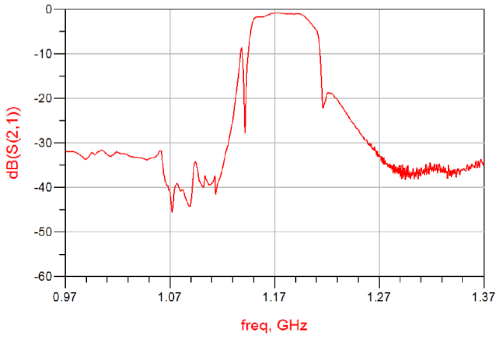

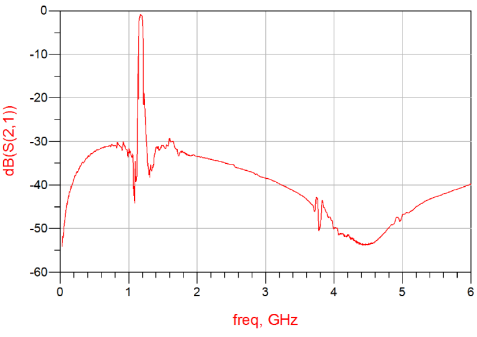

TYPICAL ELECTRICAL CHARACTERISTICS

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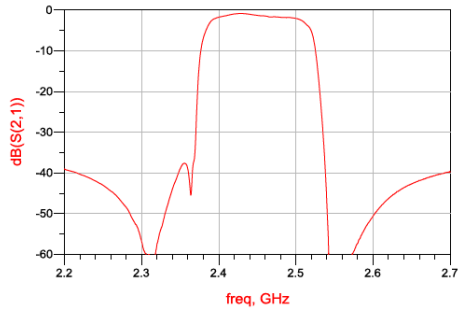

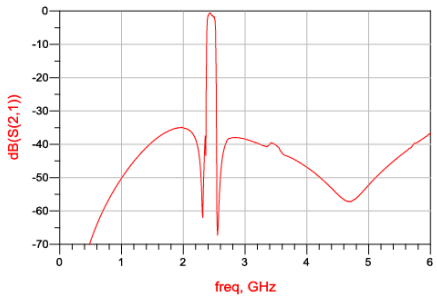

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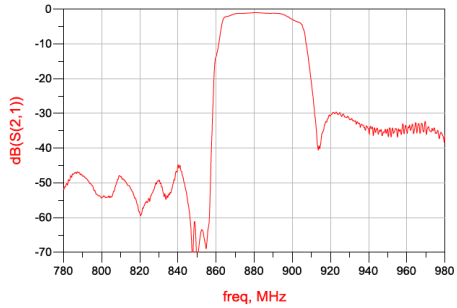

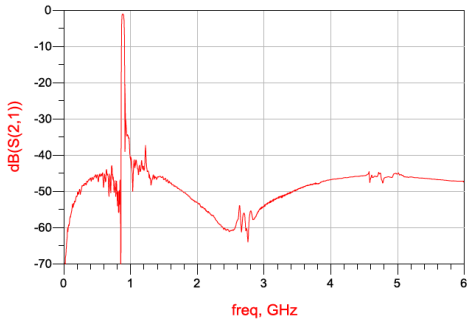

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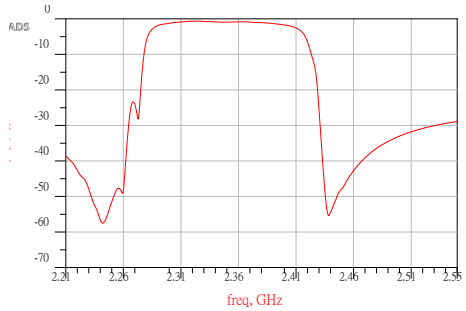

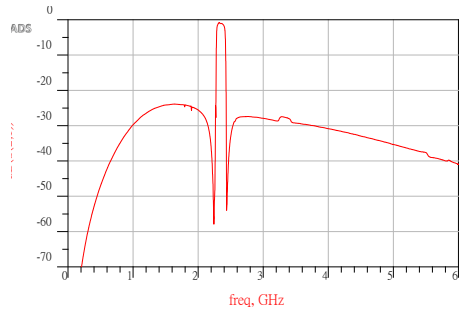

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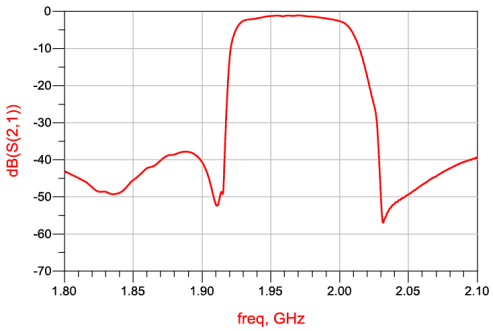

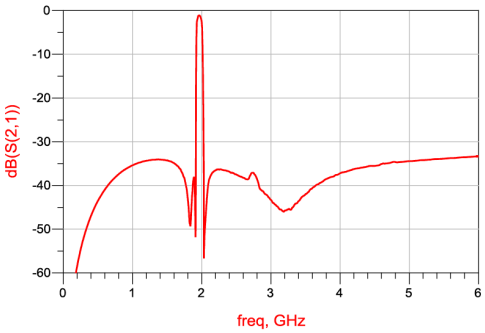

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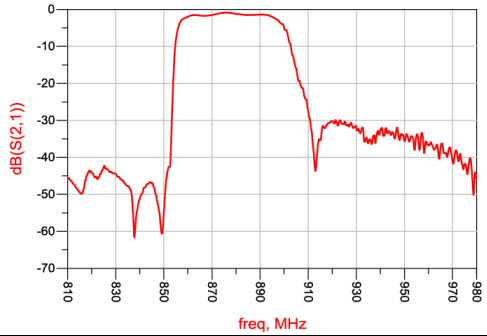

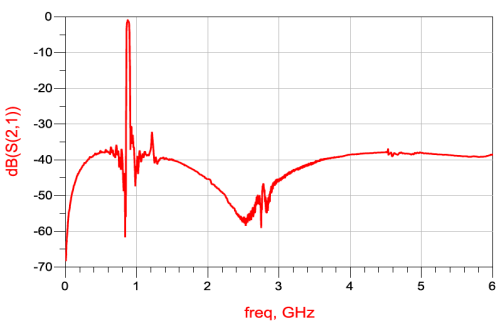

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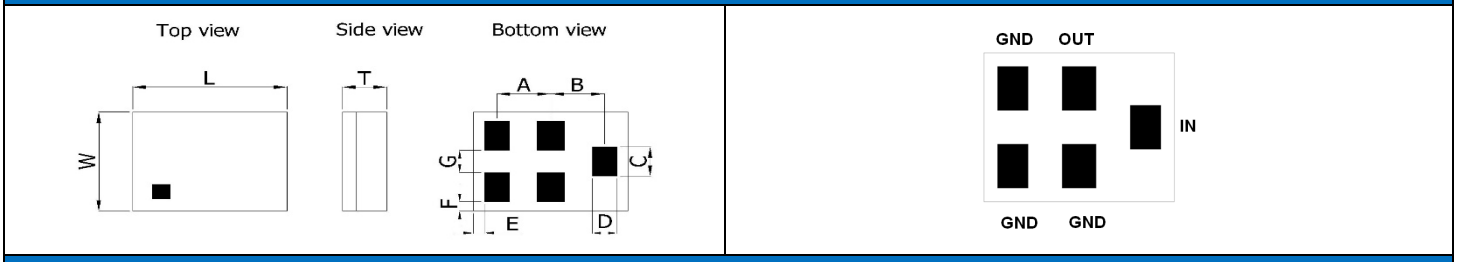
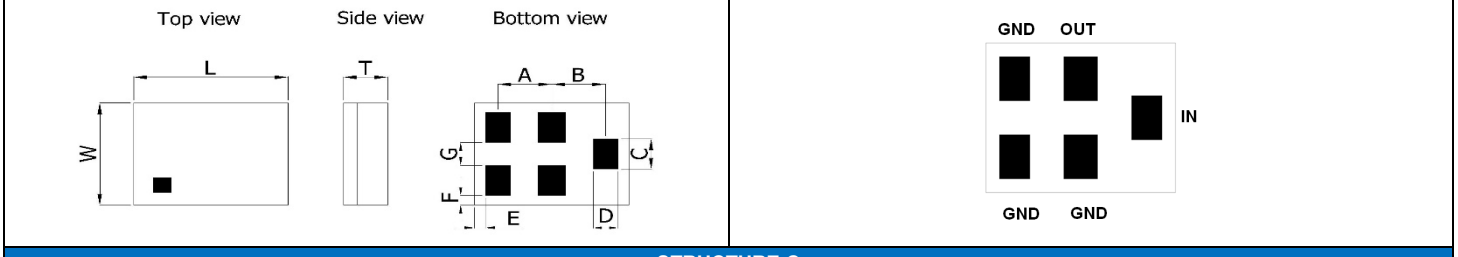
BAW Filter

■ STRUCTURE AND PIN ASSOCIATED

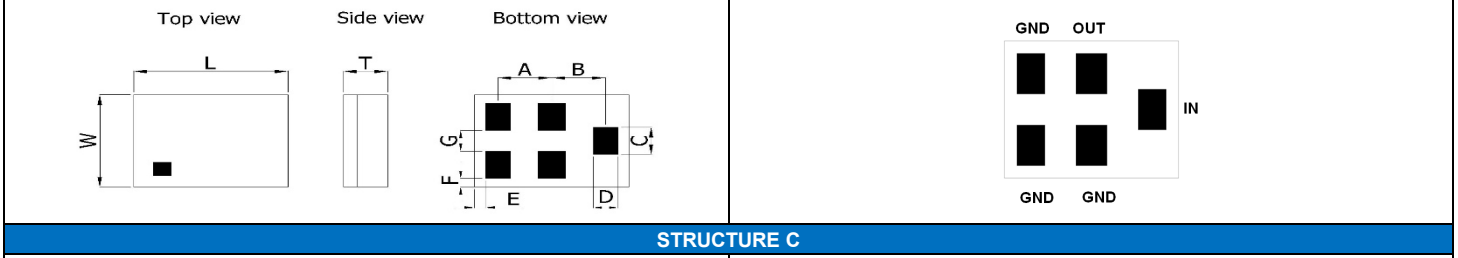
STRUCTURE A



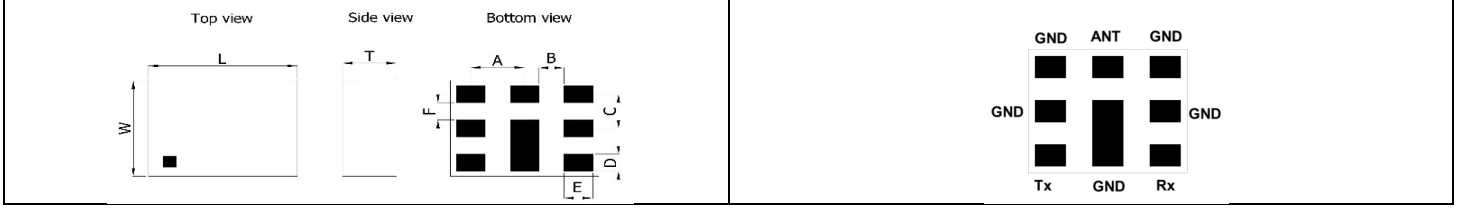
STRUCTURE B



STRUCTURE C



STRUCTURE C



■ STRUCTURE AND DIMENSION

■ Unit: mm

Structure\ Dimension	L	W	T	A	B	C	D	E	F	G	H	I
A	1.10±0.10	0.90±0.10	0.65max.	0.40	0.40	0.25	0.20	0.05	0.075	0.25	-	-
B	1.40±0.05	1.10±0.05	0.73max.	0.50	0.50	0.325	0.25	0.075	0.10	0.25	-	-
C	1.11±0.06	0.91±0.06	0.655max	0.385	0.385	0.25	0.18	0.075	0.075	0.25		
D	1.80±0.10	1.40±0.10	0.81max.	0.65	0.30	0.50	0.25	0.35	0.25	-	-	-

■ ELECTRICAL SPECIFICATION

Application	Function	Pmax(dB)	Part Number	Band	Frequency(MHz)	Insertion lss(dB) Typ	Package (mm)	STRUCTURE
WiFi	BAW Filter	28	BA11092442AE1T	WiFi	2401~2483	2.0 dB @2402~2481MHz 2.2 dB @2401~2483MHz	1.1 x 0.9	A
	BAW Filter	28	BA14112442AE01T	WiFi	2402~2481	1.8 dB @2402~2481MHz	1.4 x 1.1	B
TDD LTE	BAW Filter	30	BA112350B40C01T	B40	2300~2400	1.7 dB @2300~2395MHz 1.9 dB @2395~2400MHz	1.11 x 0.91	C
FDD LTE	BAW Duplexer	30	DA18141747B3E1T	B3	1710~1785 1805~1880	2.2 dB @1710~1785MHz 2.3 dB @1805~1880MHz	1.8 x 1.4	D
	BAW Duplexer	30	DA18142535B7E1T	B7	2500~2570 2620~2690	1.9 dB @2500~2570MHz 2.2 dB @2620~2690MHz	1.8 x 1.4	D

TYPICAL ELECTRICAL CHARACTERISTICS

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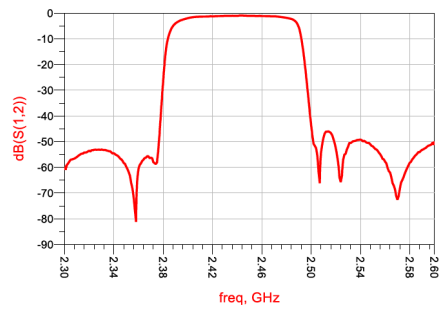

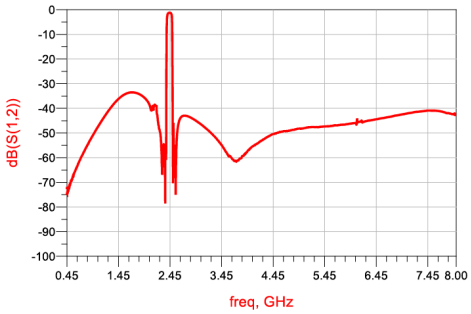

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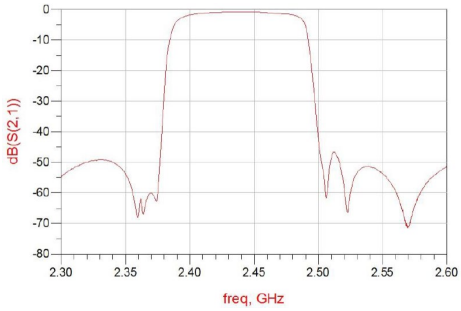

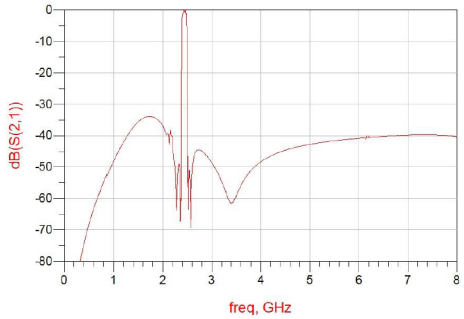

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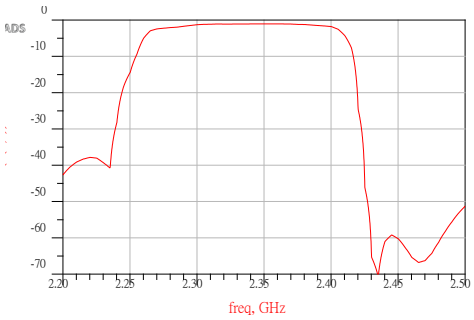

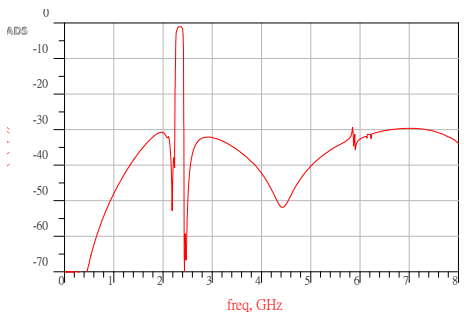

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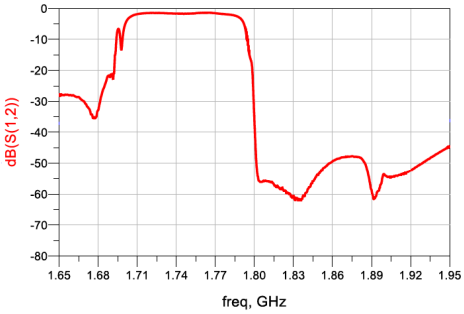

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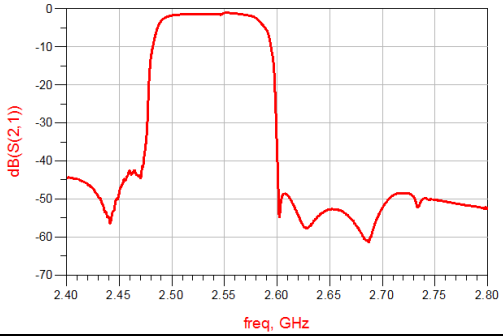

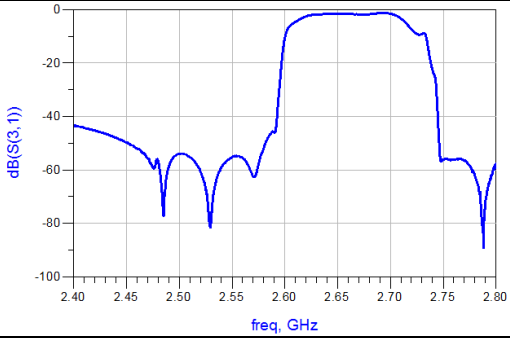

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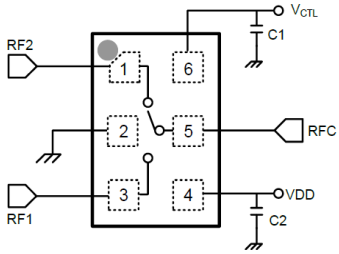
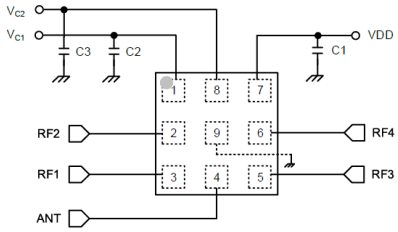
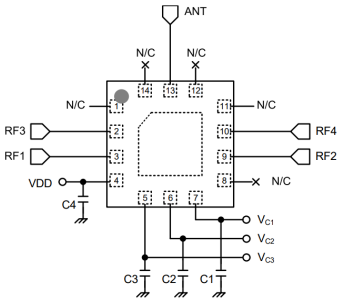
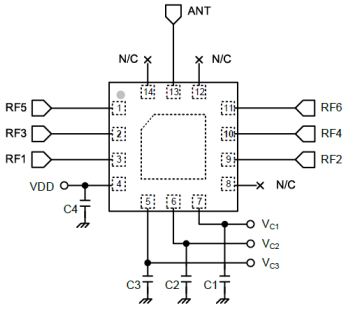
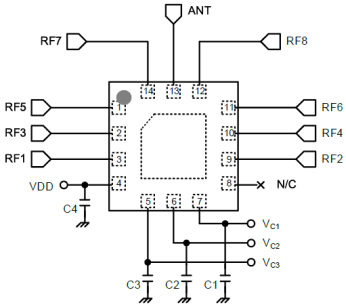
ANTENNA SWITCH

■ Application Circuit (LTE)

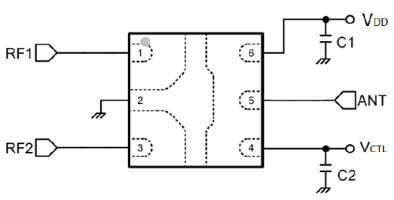
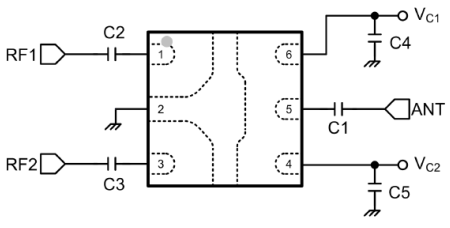
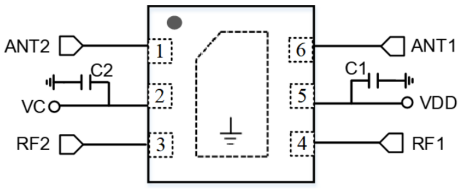
RFASWA630P5F06	RFASWK626PTF0E
SPDT	SP4T
	

RFASWK414PTF0G	RFASWH416PTF0G	RFASWD418PTF0G
SP4T	SP6T	SP8T
		

■ LTE Switch _ ELECTRICAL SPECIFICATION (Typ.)

Part Number	Interface	Function	Pmax (dBm)	Frequency (MHz)	Insertion loss (dB)	Isolation (dB)	Package (mm)
RFASWA630P5F06	GPIO	SPDT	34	100~6000	0.3@2.7GHz	25@2.7GHz	1.1 x 0.7 x 0.5
RFASWK626PTF0E	GPIO	SP4T	33	100~2700	0.6@2.7GHz	22@2.7GHz	1.1 x 1.1 x 0.46
RFASWK626PTF0G	GPIO	SP4T	33	100~2700	0.65@2.7GHz	21@2.7GHz	1.1 x 1.1 x 0.56
RFASWK414PTF0E	GPIO	SP4T	35	100~2700	0.6@2.7GHz	24@2.7GHz	2.0 x 2.0 x 0.55
RFASWK414PTF0G	GPIO	SP4T	33	100~2700	0.7@2.7GHz	25@2.7GHz	2.0 x 2.0 x 0.5
RFASWH416PTF0E	GPIO	SP6T	35	100~2700	0.6@2.7GHz	24@2.7GHz	2.0 x 2.0 x 0.55
RFASWH416PTF0G	GPIO	SP6T	33	100~2700	0.7@2.7GHz	25@2.7GHz	2.0 x 2.0 x 0.5
RFASWD418PTF0E	GPIO	SP8T	35	100~2700	0.6@2.7GHz	24@2.7GHz	2.0 x 2.0 x 0.55
RFASWD418PTF0G	GPIO	SP8T	33	100~2700	0.7@2.7GHz	25@2.7GHz	2.0 x 2.0 x 0.5

■ Application Circuit (Wi-Fi)

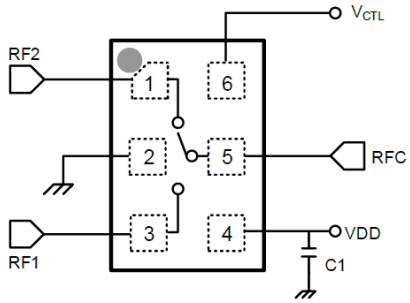
RFASWA758BTF0E	RFASWA351ATF0C	RFASWB755ATF0E
SPDT	SPDT	DPDT
		

■ Wi-Fi Switch _ ELECTRICAL SPECIFICATION (Typ.)

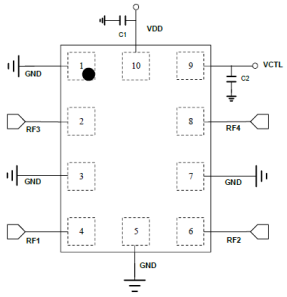
Part Number	Interface	Function	Pmax (dBm)	Frequency (MHz)	Insertion loss (dB)	Isolation (dB)	Package (mm)
RFASWA758BTF0E	GPIO	SPDT	33	100~7200	0.4@2.5GHz 5.5@5.5GHz 0.65@7.125GHz	39@2.5GHz 28@5.5GHz 24@7.125GHz	1.0 x 1.0 x 0.45
RFASWA758ATF0C	GPIO	SPDT	32	100~7200	0.25@2.5GHz 0.35@5.5GHz 0.55@7.125GHz	37@2.5GHz 26@2.5GHz 21@7.125GHz	1.0 x 1.0 x 0.4
RFASWA358ATF0G	GPIO	SPDT	32	1000~6000	0.55@2.5GHz 0.95@5.5GHz	31@2.5GHz 21@5.5GHz	1.0 x 1.0 x 0.45
RFASWA351ATF0G	GPIO	SPDT	32	1000~6000	0.5@2.5GHz 1.05@5.5GHz	31@2.5GHz 19@5.5GHz	1.0 x 1.0 x 0.45
RFASWA751ATF0C	GPIO	SPDT	32	100~7200	0.25@2.5GHz 0.35@5.5GHz 0.55@7.125GHz	37@2.5GHz 26@2.5GHz 21@7.125GHz	1.0 x 1.0 x 0.4
RFASWB755ATF0E	GPIO	DPDT	32	100~7200	0.7@2.5GHz 0.95@5.5GHz 1.2@7.125GHz	42@2.5GHz 45@5.5GHz 28@7.125GHz	1.5 x 1.5 x 0.45

■ Application Circuit (5G NR)

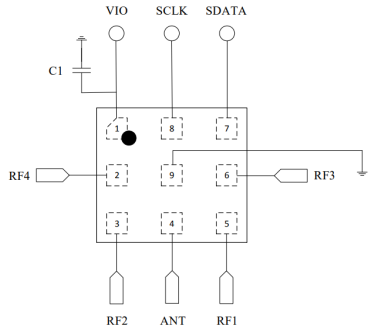
RFASWA630PTF0E — **SPDT**



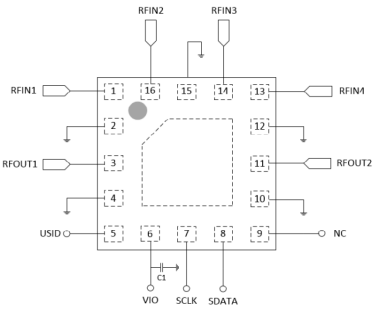
RFASWB022ATF0E — **DPDT**



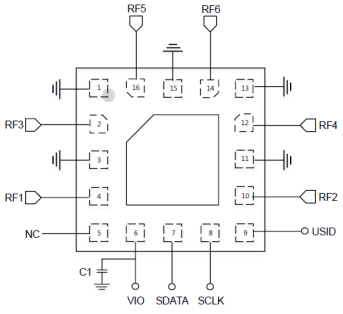
RFASWK114ATF0E — **SP4T**



RFASWCM024ATF0G — **DP4T**



RFASWAB477ATF0G — **3P3T**



■ 5G NR Switch _ ELECTRICAL SPECIFICATION (Typ.)

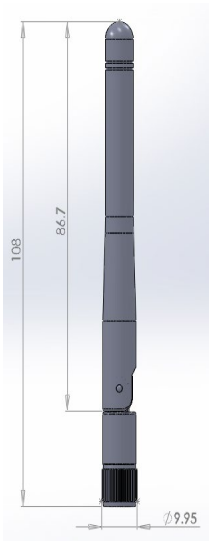
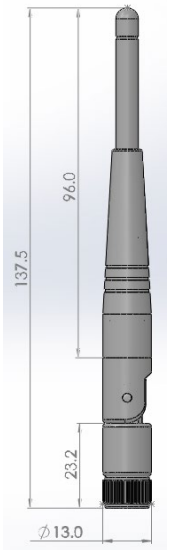
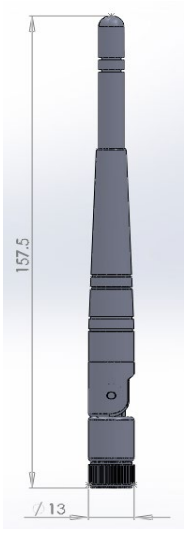
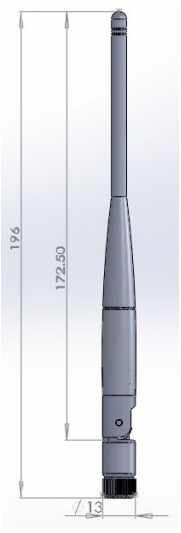
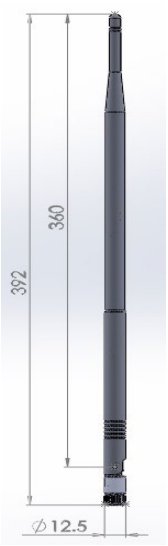
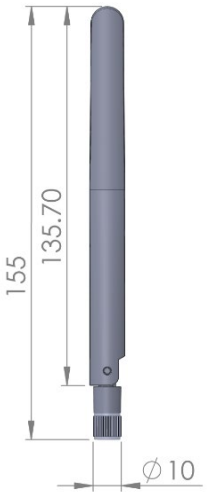
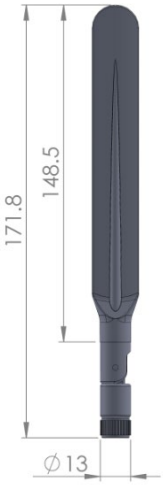
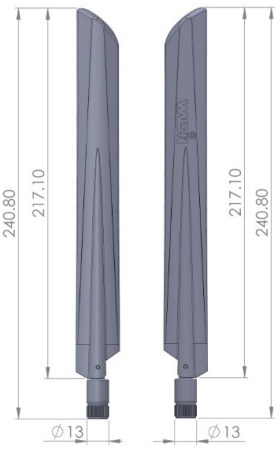
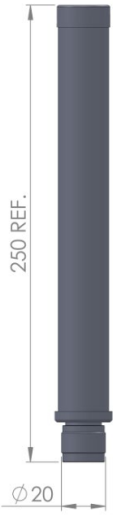
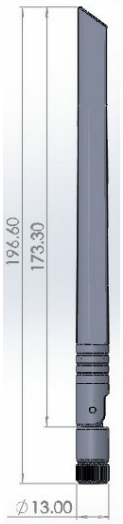
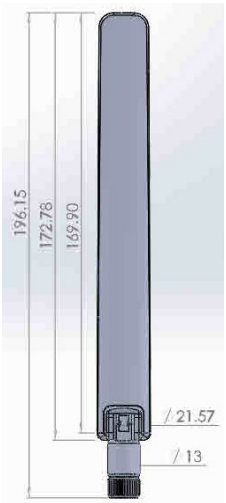
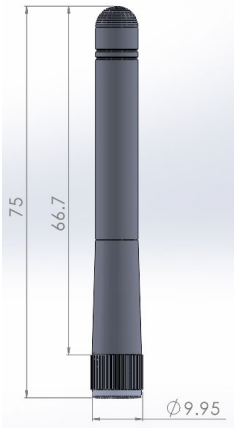
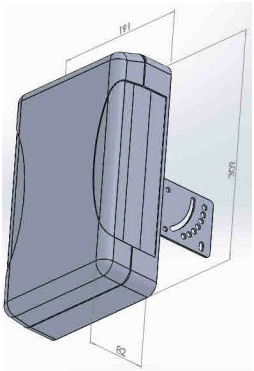
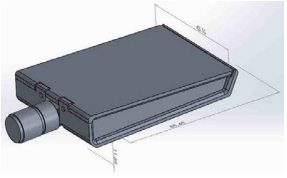
Part Number	Interface	Function	Pmax (dBm)	Frequency (MHz)	Insertion loss (dB)	Isolation (dB)	Package (mm)
RFASWA630PTF0E	GPIO	SPDT	39	100~6000	0.65@6GHz	15@6GHz	1.1 x 0.7 x 0.5
RFASWB022ATF0E	GPIO	DPDT	35	100~5000	0.95@5GHz	30@5GHz	1.5 x 1.1 x 0.45
RFASWK114ATF0E	MIPI	SP4T	39	100~5000	0.7@5GHz	18@5GHz	1.1 x 1.1 x 0.46
RFASWCM024ATF0G	MIPI	DP4T	37	100~5000	1.68@5GHz	22@5GHz	2.0 x 2.0 x 0.55
RFASWAB477ATF0G	MIPI	3P3T	37.2	100~6000	1.25@6GHz	24@6GHz	2.0 x 2.0 x 0.55

DIPOLE ANTENNA (N/SMA)

■ ELECTRICAL SPECIFICATION

Series	Size(mm)		Working Frequency Range	Gain	VSWR	Return Loss
	L	Ø				
8709	87	9.95	2.4~2.5 GHz	2dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz：2dBi 5.15~5.85 GHz：3dBi	<2	<-10dB
			UHF	2dBi	<2	<-10dB
1313	137.5	13	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz：3dBi 5.15~5.85 GHz：3dBi	<2	<-10dB
1513	157.5	13	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz：3dBi 5.15~5.85 GHz：3dBi	<2	<-10dB
			5150~7125 MHz	5150~5850 GHz：3.5dBi 5950~7125 GHz：3.5dBi	<2	<-10dB
1713	172.5	13	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz：4dBi 5.15~5.85 GHz：5dBi	<2	<-10dB
			5150~7125 MHz	5150~5850 GHz：3.5dBi 5950~7125 GHz：3.5dBi	<2	<-10dB
3913	392	12.5	2.4~2.5 GHz	9dBi	<2	<-10dB
1310	135.7	10	2.4~2.5 GHz	5dBi	<2	<-10dB
			5.x GHz	5dBi	<2	<-10dB
			2.4~2.5/5.x GHz	3dBi~4dBi	<2	<-10dB
			Lora	3dBi	<2.5	<-7dB
			LTE	3dBi	<3	<-6dB
			UHF	3dBi	<2.5	<-7dB
1413	148.5	13	2.4~2.5 GHz	3dBi	<2	<-10dB
			5.x GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	3dBi	<2	<-10dB
			LTE	3dBi	<3	<-6dB
1615	169.9	13	LTE+Sub-6G+5G	0.93 dBi(@ 617 ~960 MHz) 2.71 dBi(@1710 ~ 2690 MHz) 3.66 dBi(@ 3300 ~4200 MHz) 4.37 dBi(@5150 ~7150 MHz)	<3.0 (@ 617~960 / 1710~2690 MHz) <3.0 (@ 3300~4200 / 5150~7150 MHz)	<6.0 dB (@ 617~960 / 1710~2690 MHz) <-6.0 dB (@ 3300~4200 / 5150~7150 MHz)
1913	196.6	13	2.4~2.5 GHz	5dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz：4dBi 5.15~5.85 GHz：5dBi	<2	<-10dB
			5150~7125 MHz	5150~5850 GHz：3.0dBi 5950~7125 GHz：3.5dBi	<2	<-10dB
			UHF	2dBi	<2	<-10dB
2213	217.1	13	2.4~2.5/5.x GHz	2.4~2.5 GHz：5dBi 5.15~5.85 GHz：4dBi	<2	<-10dB
			2.4~2.5 GHz	6dBi	<2	<-10dB
			2.4~2.5/5.x GHz	7dBi	<2	<-10dB
			5.x GHz	7dBi	<2	<-10dB
			LTE	5dBi	<3	<-6dB
2220	220	20	2.4 GHz	5dBi	<2	<-10dB
			5.x GHz	5dBi	<2	<-10dB
			2.4~2.5 GHz	7dBi	<2	<-10dB
2520	25	20	2.4 GHz	5~7dBi	<2	<-10dB
			5.x GHz	7dBi	<2	<-10dB
			2.4~2.5 GHz（High Gain）	7dBi	<2	<-10dB
4358	43.1	58.45	2.4~2.5 GHz 4.9~7.2 GHz	3.5dBi(@2.4~2.5 GHz) 2.5dBi(@4.9~7.2 GHz)	<2	<-10dB
2525	256.5	256.5	3300 ~ 3800 MHz	10 dBi	<2.5	<-7.3 dB
3019	309	191	698 ~ 960 MHz 1710 ~ 2690 MHz 3300 ~ 3800 MHz	5 dBi (@698 ~ 960 MHz) 8 dBi (@1710 ~ 2690 MHz) 11 dBi (@3300 ~ 3800 MHz)	<3.5 (@698 ~ 960 MHz) <3.0 (@1710 ~ 2690 MHz) <3.0 (@3300 ~ 3800 MHz)	<-5.1 dB(@698 ~ 960 MHz) <-6.0 dB(@1710 ~ 2690 MHz) <-6.0 dB(@3300 ~ 3800 MHz)
6609	66.7	9.95	UHF	--	<3	<-6dB

DIPOLE ANTENNA (N/SMA)

8709	1313	1513	1713	3913
				
1310	**1413**	**2213**	**2220**	**2520**
				
1913	**1615**	**6609**	**3019**	**4358**
				
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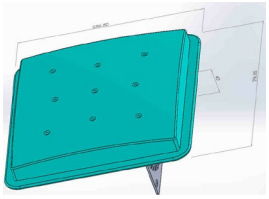
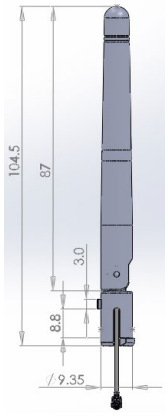
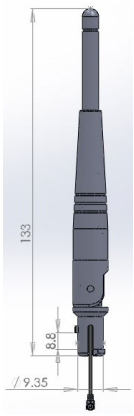
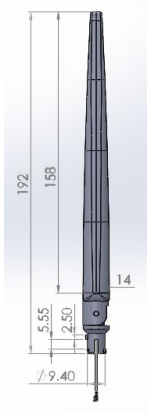
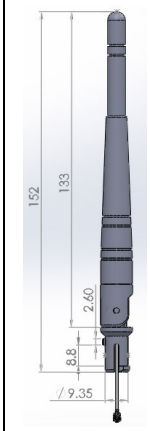
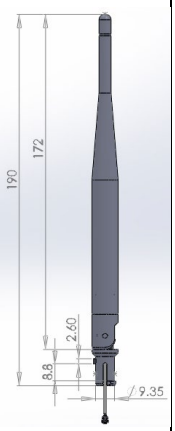
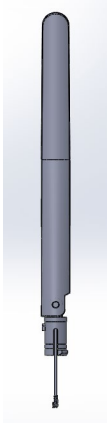
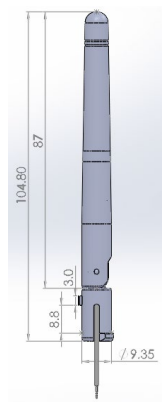
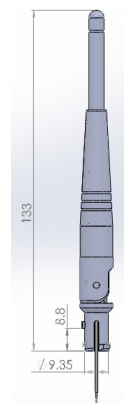
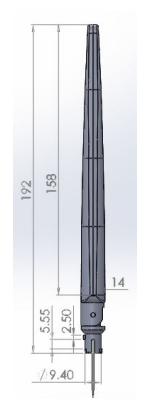
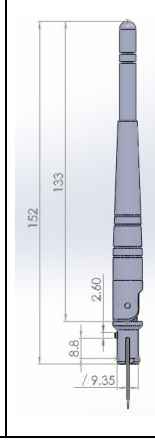
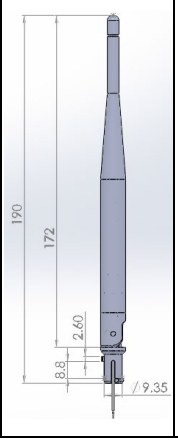
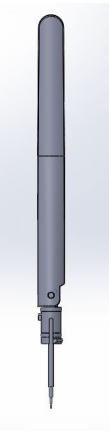
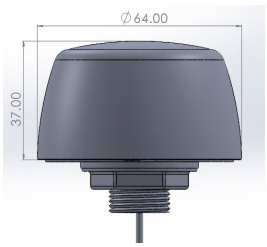
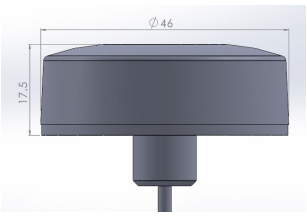
				

DIPOLE ANTENNA (Cable)

■ ELECTRICAL SPECIFICATION

Series	Size(mm)		Working Frequency Range	Gain	VSWR	Return Loss
	L	Ø				
8709	87	9.35	2.4~2.5 GHz	2dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 2dBi 5.15~5.85 GHz : 3dBi	<2	<-10dB
1313	133	9.35	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 3dBi 5.15~5.85 GHz : 3dBi	<2	<-10dB
1513	152	9.35	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 3dBi 5.15~5.85 GHz : 3dBi	<2	<-10dB
			5150~7125 MHz	5150~5850 GHz : 3.0dBi 5950~7125 GHz : 3.5dBi	<2	<-10dB
1514	158	14	2.4~2.5/5.x GHz	2.4~2.5 GHz : 5dBi 5.15~5.85 GHz : 7dBi	<2	<-10dB
1713	172	9.35	2.4~2.5 GHz	3dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 4dBi 5.15~5.85 GHz : 5dBi	<2	<-10dB
			5150~7125 MHz	5150~5850 GHz : 3.0dBi 5950~7125 GHz : 3.5dBi	<2	<-10dB
1310	135.7	10	2.4~2.5 GHz	5dBi	<2	<-10dB
			5.x GHz	5dBi	<2	<-10dB
			2.4~2.5/5.x GHz	3dBi~4dBi	<2	<-10dB
			LTE	3dBi	<3	<-6dB
1913	192	9.35	2.4~2.5 GHz	5dBi	<2	<-10dB
			2.4~2.5/5.x GHz	2.4~2.5 GHz : 4dBi 5.15~5.85 GHz : 5dBi	<2	<-10dB
			5150~7125 MHz	5150~5850 GHz : 3.0dBi 5950~7125 GHz : 3.5dBi	<2	<-10dB
1330	130	30	LTE	-0.09 dBi(@ 824 ~960 MHz) 1.81 dBi(@1700 ~ 2700 MHz)	<3	<-6dB
6537	64	37	LTE	0.65 dBi(@ 699 ~746 MHz) 4.61 dBi(@1710 ~ 2155 MHz)	<3 .5(@ 699 ~746 MHz) <3 (@1710 ~ 2155 MHz)	<-5.1 dB(@ 699 ~746 MHz) <-6dB(@1710 ~ 2155 MHz)
4617	46	17.5	2.4~2.5 GHz	2 dBi	<2	<-10dB

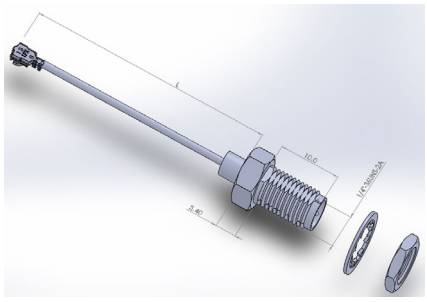
8709	1313	1514	1513	1713	1310	1913	1330
							
							6537  4617 

Cable Assembly

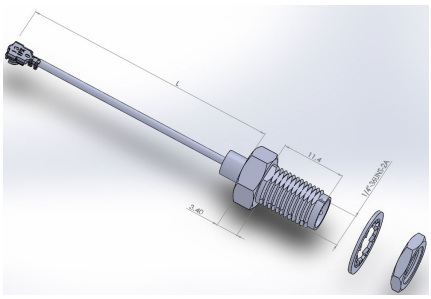
■ ELECTRICAL SPECIFICATION

Series	Connector 1	Connector 2	Wire Diameter	Color	L	Working Frequency Range	VSWR
1006	Straight Reverse SMA Jack	IPEX(or Strip & Tin)	Ø1.13/Ø1.37/RG178	Option	Option	DC ~ 6 GHz	2.0
1106	Straight Reverse SMA Jack	IPEX(or Strip & Tin)	Ø1.13/Ø1.37/RG178	Option	Option	DC ~ 6 GHz	2.0
1613	R/A Reverse SMA Jack	IPEX(or Strip & Tin)	Ø1.13/Ø1.37/RG178	Option	Option	DC ~ 6 GHz	2.0
0403	IPEX	IPEX(or Strip & Tin)	Ø0.81/Ø1.13/Ø1.37/RG178	Option	Option	DC ~ 6 GHz	2.0
0202	IPEX III	IPEX(or Strip & Tin)	Ø0.81	Option	Option	DC ~ 6 GHz	2.0
xxxx	Strip & Tin	Strip & Tin	Ø0.81/Ø1.13/Ø1.37/RG178	Option	Option	DC ~ 6 GHz	2.0
1015	N Jack	MMCX(or Strip & Tin)	RG316	Option	Option	DC ~ 6 GHz	2.0
1008	Straight Reverse SMA Plug	IPEX(or Strip & Tin)	RG405	Option	Option	DC ~ 6 GHz	2.0

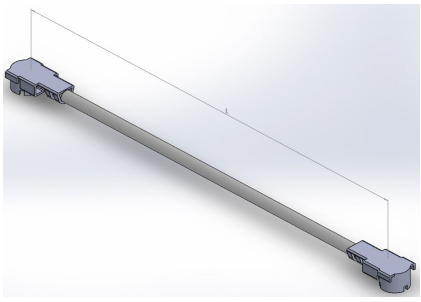
1006



1106



0403/0202



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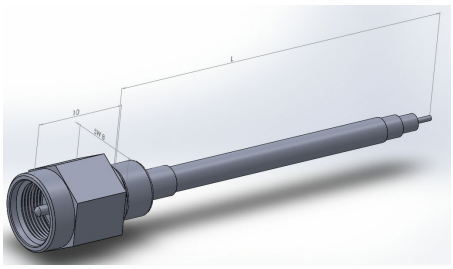

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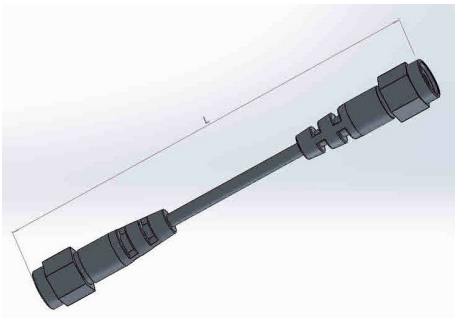

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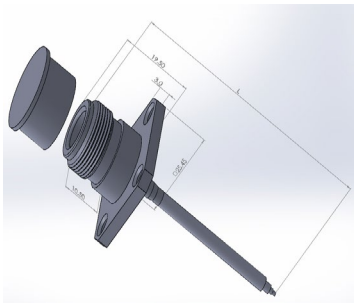

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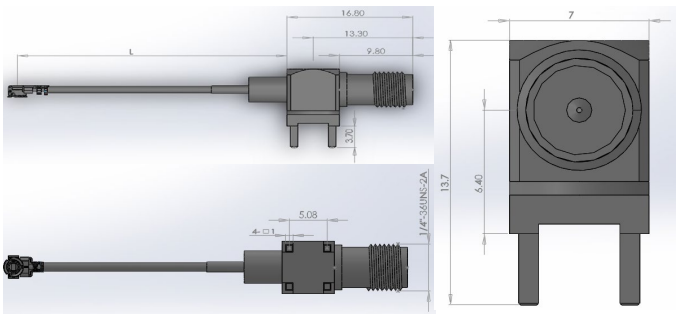
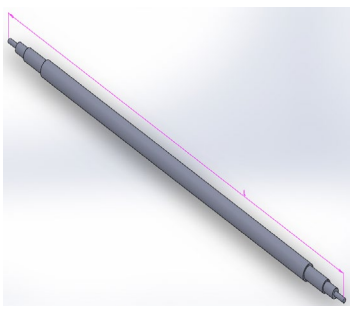


XXX

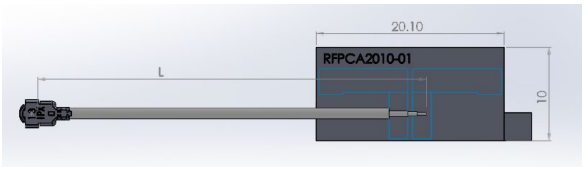


PCB Antenna

■ ELECTRICAL SPECIFICATION

Series	PCB Size(mm)		Cable Length (mm) L	Working Frequency Range	Gain	VSWR	Return Loss
	L	w					
1118	118	18	Option	LTE+Sub-6G+5G	3.32 dBi(@ 698 ~960 MHz) 6.04 dBi(@1710 ~ 2690 MHz) 5.36 dBi(@ 3300 ~3800 MHz) 4.39 dBi(@5150 ~5850 MHz)	<2.0(@ 698~960 MHz) <3.0(@1710~ 2690 / 3300 ~3800 / 5150~5850 MHz)	<-10.0 dB (@698~960 / 1710~2690 MHz) <-6.0 dB (@3300~3800 / 5150~5850 MHz)
2022	20	22	Option	LTE+Sub-6G+5G	5.54 dBi	<2	<-10dB
2313	23	13	Option	5 GHz	3dBi	<2	<-10dB
4305	43	5	Option	2.4~2.5 GHz	2dBi	<2	<-10dB
2010	20.1	10	Option	5 GHz	3dBi	<2	<-10dB
5010	50	10	Option	2.4~2.5 GHz	3dBi	<2	<-10dB
4308	43	8.3	Option	2.4~2.5/5.x GHz	2.4~2.5 GHz：2dBi 5.x GHz：3dBi	<2	<-10dB
4606	46.5	6	Option	2.4~2.5 GHz	2dBi	<2	<-10dB
3513	35	13	Option	2.4~2.5 GHz	4dBi	<2	<-10dB
3515	35	15	Option	2.4~2.5/5.x GHz	2.4~2.5 GHz：2dBi 5.x GHz：3dBi	<2	<-10dB
2022	20	22.75	Option	5150 ~ 7125 MHz	3.5dBi	<2	<-10dB
7505	75	5.2	Option	UHF	--	<2.5	<-7.3dB
7910	79	10	Option	UHF	--	<2	<-10dB
2120	21	20	Option	5925 ~ 7125 MHz	4.89dBi	<3	<-6dB
1020	100.2	20	Option	617~960 MHz 1710~2690 MHz 3300~5000 MHz 5150~5925 MHz	--	<3.5	<-5.1dB
1116	112.2	16.2	Option	617~960 MHz 1710~2690 MHz 3300~4200 MHz 5150~7150 MHz	617~960 MHz:0.93dBi 1710~2690 MHz:2.71dBi 3300~4200 MHz:3.66dBi 5150~7150 MHz:4.37dBi	<3	<-6dB

2010



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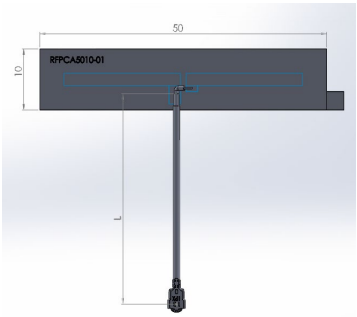
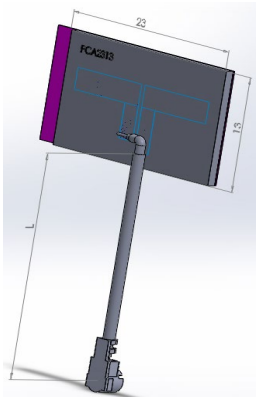


2313



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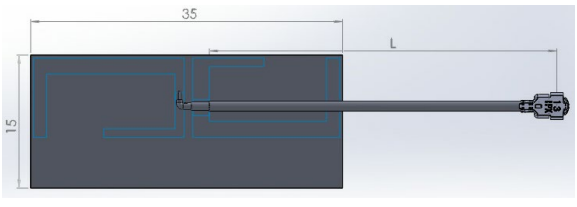

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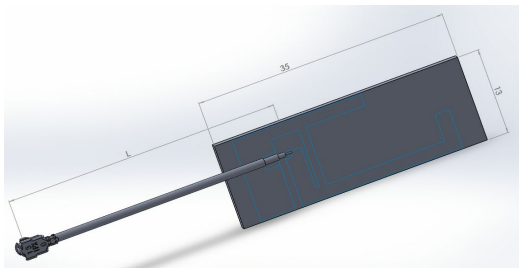
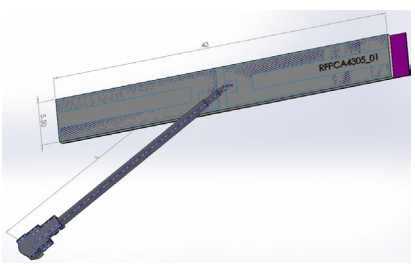
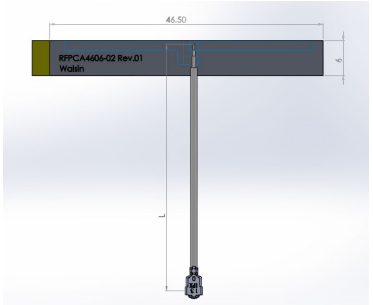


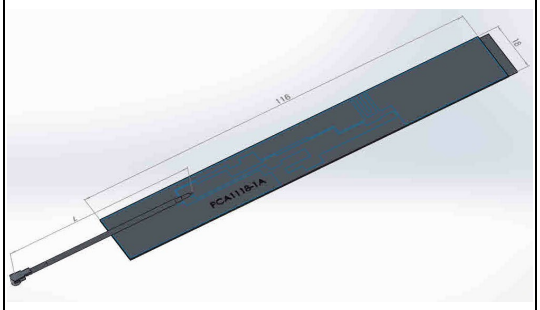
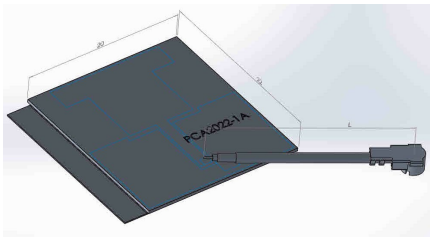
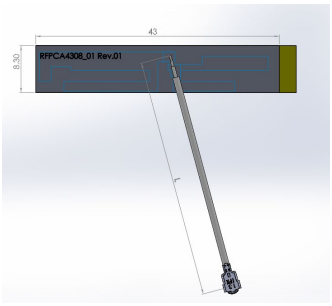
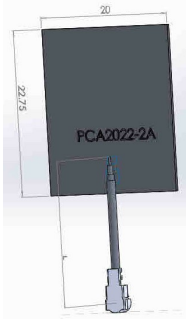
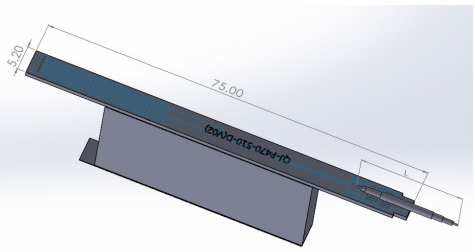
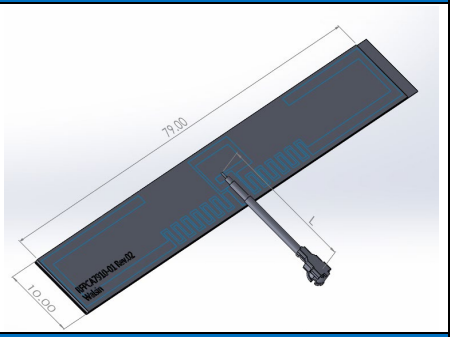
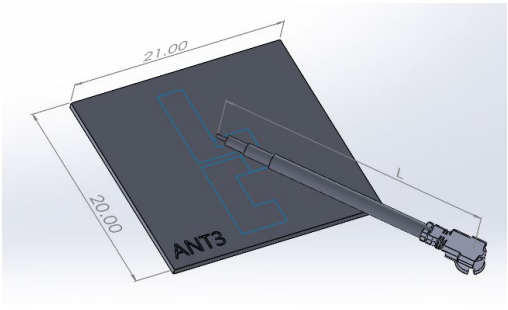
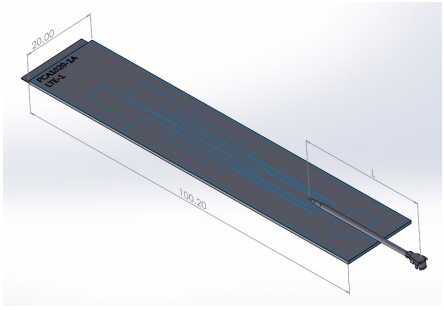
4305



4606



PCB Antenna

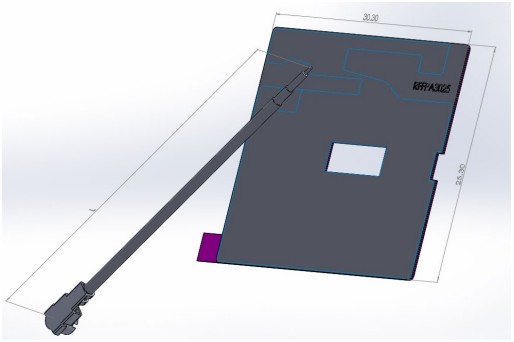
1118	2022	4308
		
2022	**7505**	**7910**
		
2120	**1020**	**1116**
		

FPA Antenna

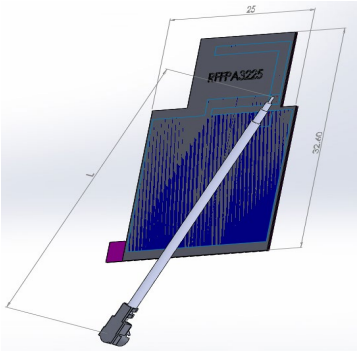
■ ELECTRICAL SPECIFICATION

Series	Size(mm)		Cable Length(mm) L	Working Frequency Range	Gain	VSWR	Return Loss
	L	w					
3025	30.3	25.3	Option	2.4~2.5 GHz	3dBi	<2	<-10dB
3225	25	32.6	Option	2.4~2.5 GHz	2dBi	<2	<-10dB
3226	32.35	26	Option	2.4~2.5 / 5.x GHz	3dBi	<2	<-10dB
4305	43	5.5	Option	2.4~2.5 GHz	3dBi	<2	<-10dB
3010	30	10	Option	2.4~2.5 GHz	2dBi	<2	<-10dB
2006	20	6	Option	5.x GHz	2dBi	<2	<-10dB
2022	20	22.75	Option	5150 ~ 7125 MHz	3.5dBi	<2	<-10dB

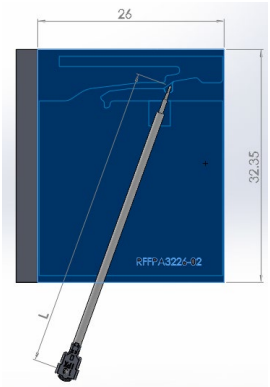
3025



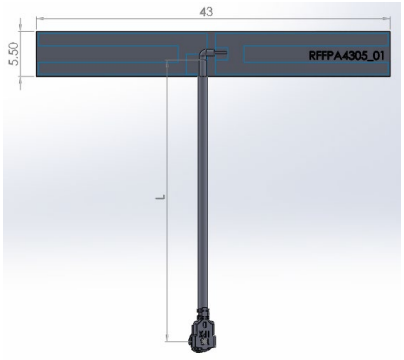
3225



3226

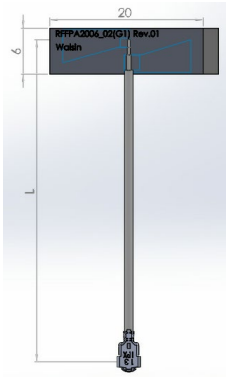


4305

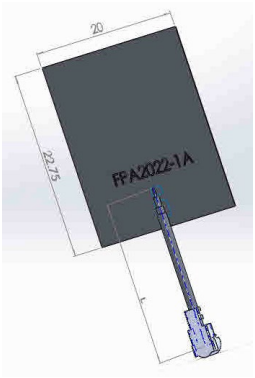


3010

2006



2022

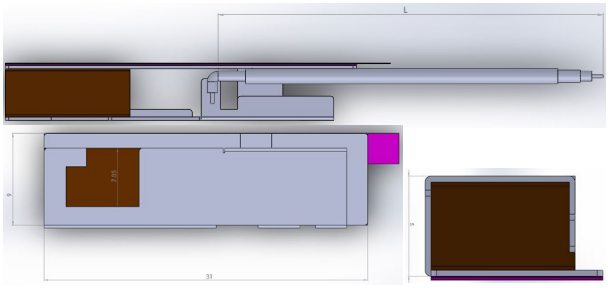


Metal Antenna

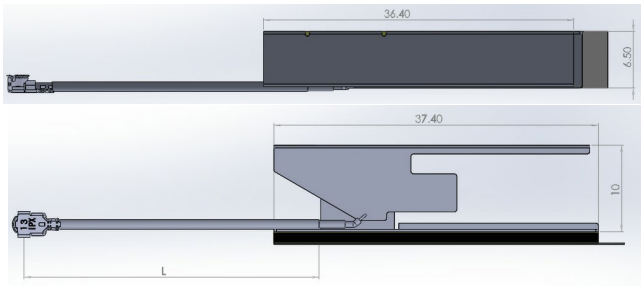
■ ELECTRICAL SPECIFICATION

Series	Size(mm)		Cable Length(mm) L	Working Frequency Range	Gain	VSWR	Return Loss
	L	w					
3109	31	9	Option	2.4~2.5/5.x GHz	2.4~2.5 GHz：2 dBi 5.x GHz：2 dBi	<2	<-10dB
2107	21.5	7.1	None	2.4~2.5 GHz	3 dBi	<2	<-10dB
2807	28.6	7.9	Option	2.4~2.5 GHz	3 dBi	<2	<-10dB
3407	34	7.5	Option	2.4~2.5 GHz	3 dBi	<2	<-10dB
3706	37.4	6.5	Option	2.4~2.5/5.x GHz	2.4~2.5 GHz：5 dBi 5.x GHz：5 dBi	<2	<-10dB
2712	27.75	12.8	None	2.4~2.5 GHz	3.38 dBi	<2	<-10dB
2811	27.05	11.3	None	2.4~2.5/5.x GHz	2.4~2.5 GHz：2.66dBi 5.x GHz：3.68dBi	<2	<-10dB
2911	29.6	11.3	None	2.4~2.5/5.x GHz	2.4~2.5 GHz：2.14dBi 5.x GHz：2.68dBi	<2	<-10dB
2007	20.9	7.8	Option	5150 ~ 7125 MHz	5 dBi	<2	<-10dB
2008	20.2	8.6	Option	5150 ~ 7125 MHz	5 dBi	<2	<-10dB

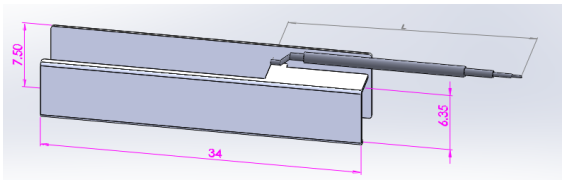
3109



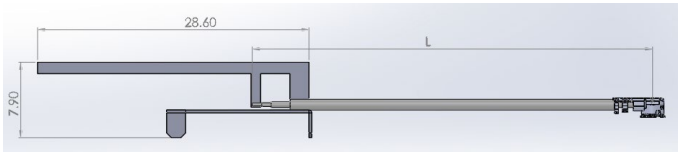
3706



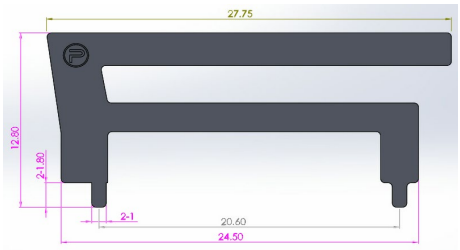
3407



2807



2712



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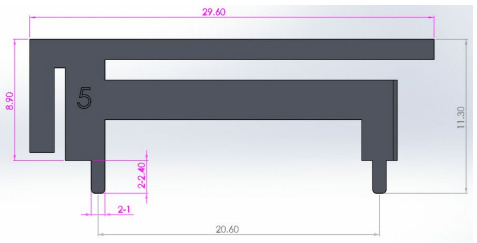

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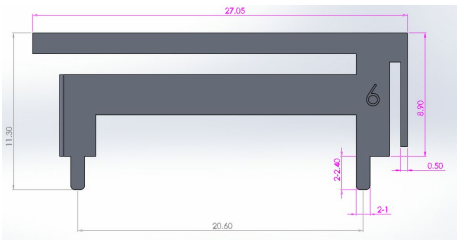

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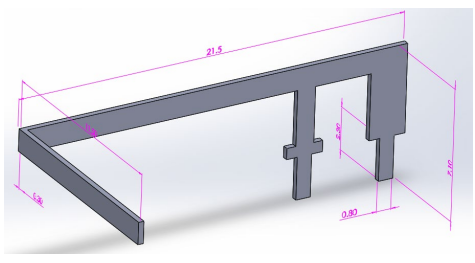

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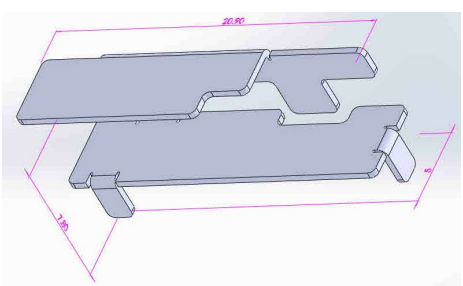

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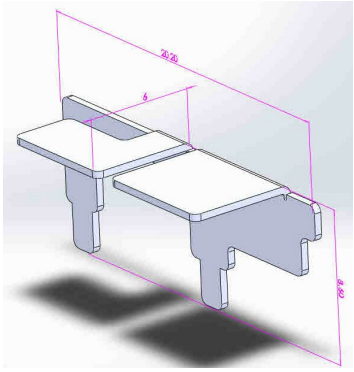
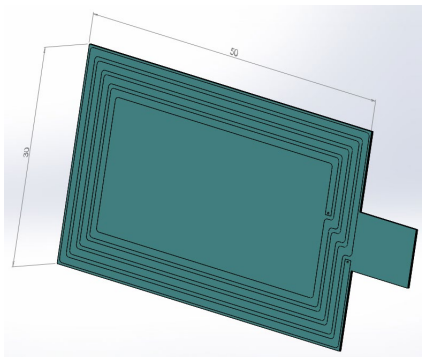
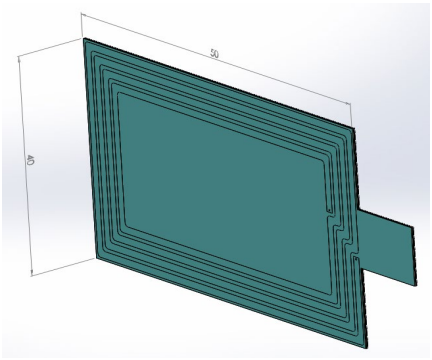
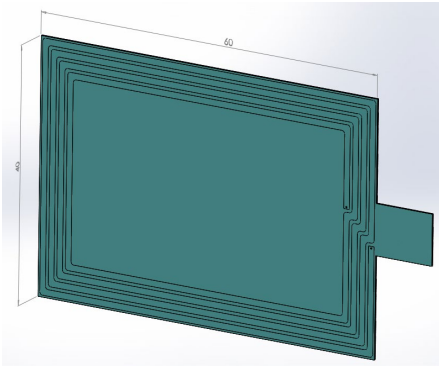


NFC Antenna (NFC/WPC/WNC)

■ ELECTRICAL SPECIFICATION

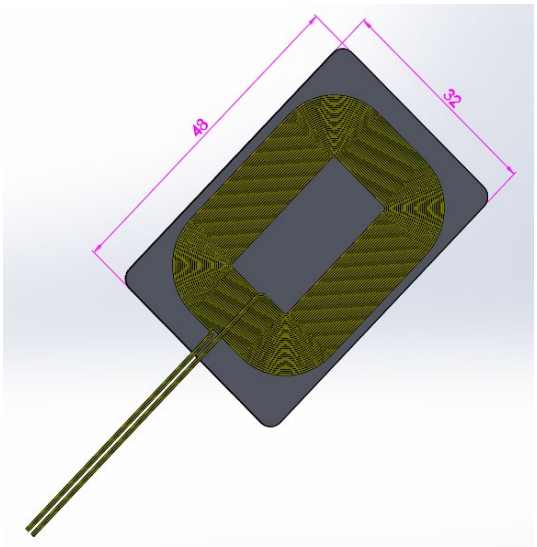
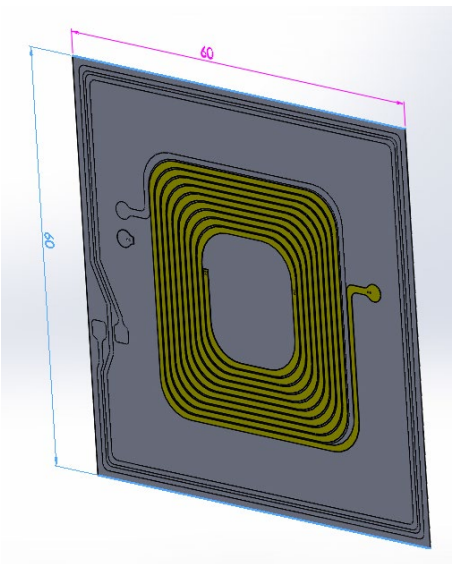
NFC

Series	Size(mm)		Ls	Rs	Q
	L	w			
5030	50	30	1.62±0.1μH	0.66±0.15Ω	15.42±2.5(1MHz)
5040	50	40	1.89±0.1μH	0.76±0.15Ω	15.62±2.5(1MHz)
6040	60	40	2.37±0.1μH	0.85±0.15Ω	17.5±2.5(1MHz)

5030	5040	6040
		

WPC & WNC

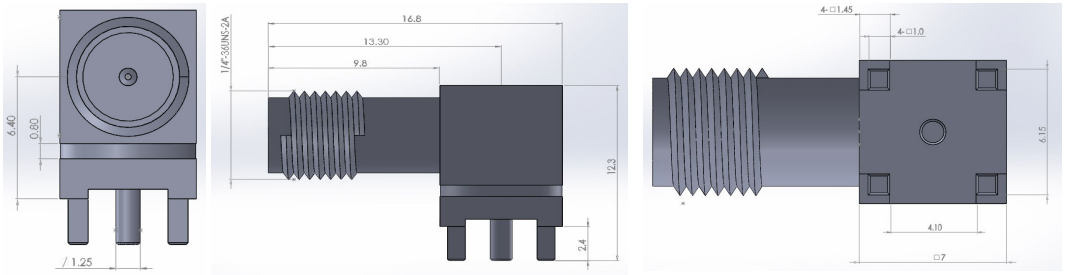
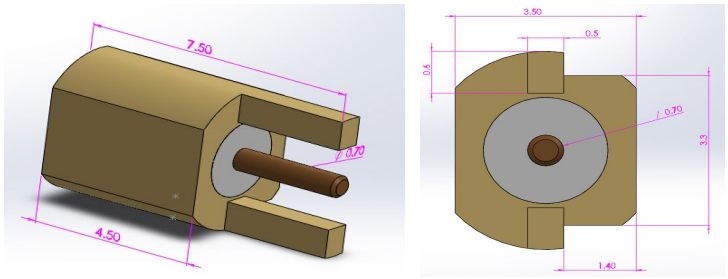
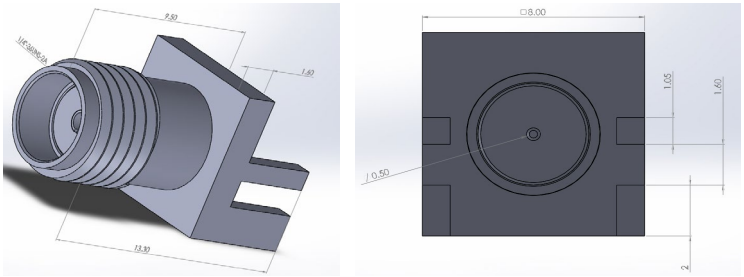
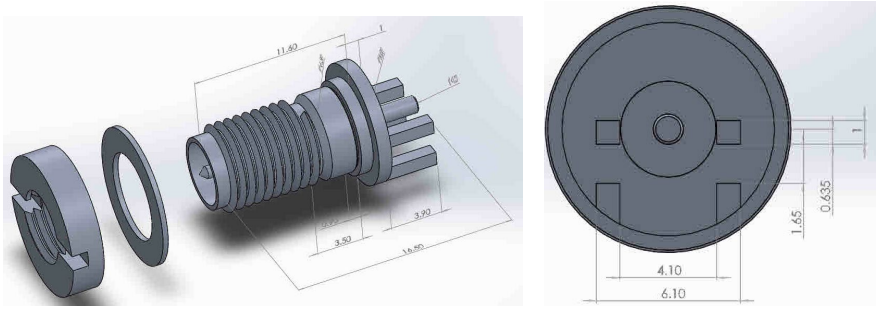
TYPE	Series	Size(mm)		Ls		Rs		Q	
		L	w						
WPC	4832	48	32	1.35±0.1μH		0.3±0.15Ω		28.3±2.5(1MHz)	
WNC	6060	60	60	NFC	2.11±0.1μH	NFC	0.572±0.15Ω	NFC	37.2±2.5(1MHz)
				WPC	18.69±0.1μH	WPC	0.837±0.15Ω	WPC	14.03±2.5(1MHz)

4832	6060
	

Connector

■ ELECTRICAL SPECIFICATION

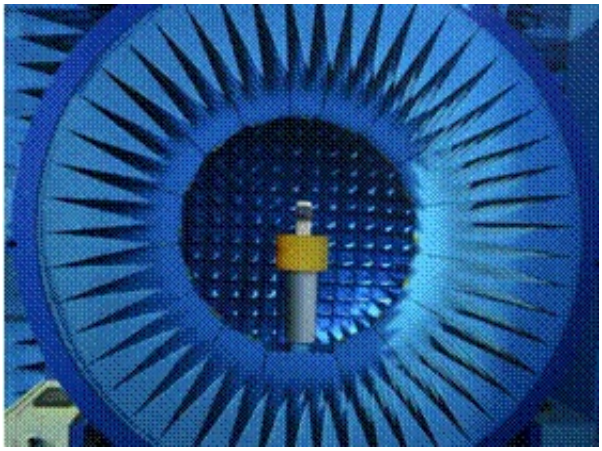
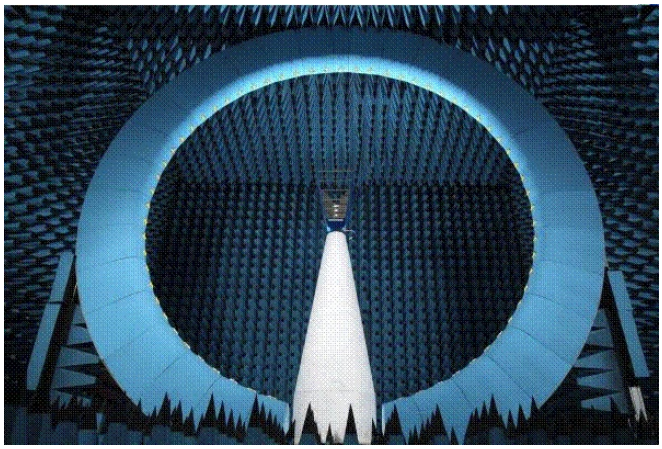
Series	Size(mm)		Working Frequency Range	VSWR
	L	w		
1612	16.8	12.3	DC ~ 6 GHz	2.0
0703	7.5	3.3	DC ~ 6 GHz	2.0
1308	13.3	8	DC ~ 6 GHz	2.0
1609	16.5	9	DC ~ 6 GHz	2.0

1612	
0703	
1308	
1609	

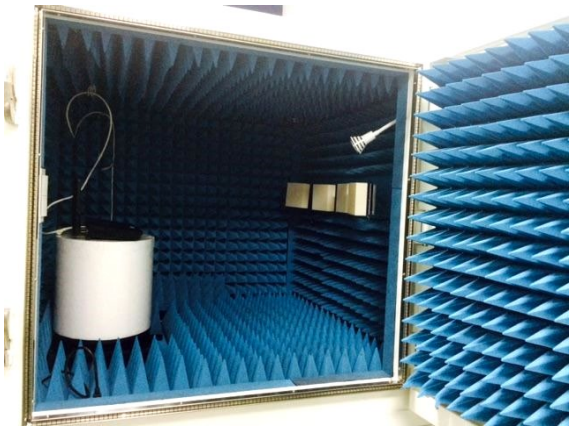
Measurement Equipment

■ Antenna Passive Measurement：Efficiency / 3D Pattern @400MHz ~6GHz

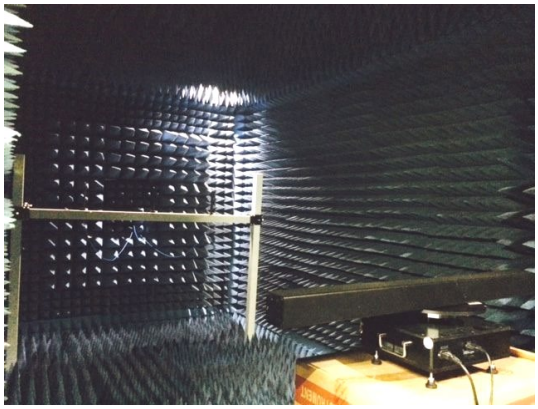
■ Active Measurement：TRP & TIS Measurement for GSM/WCDMA/TD-CDMA/TDD-LTE/FDD-LTE

StarLab	SG24-L(5m*5m*5m)
	

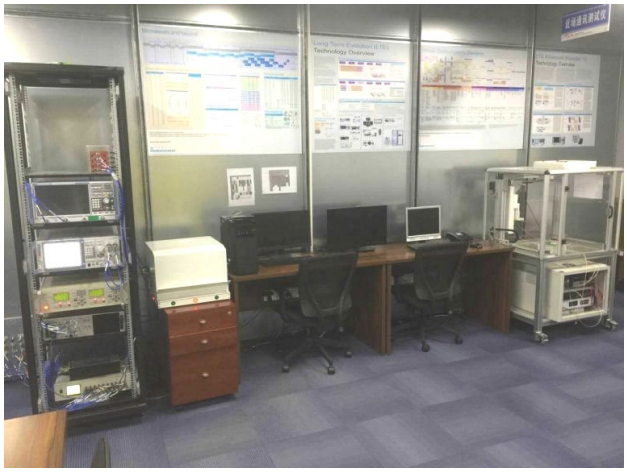
■ 2D Antenna Lab (Wireless Throughput Test)

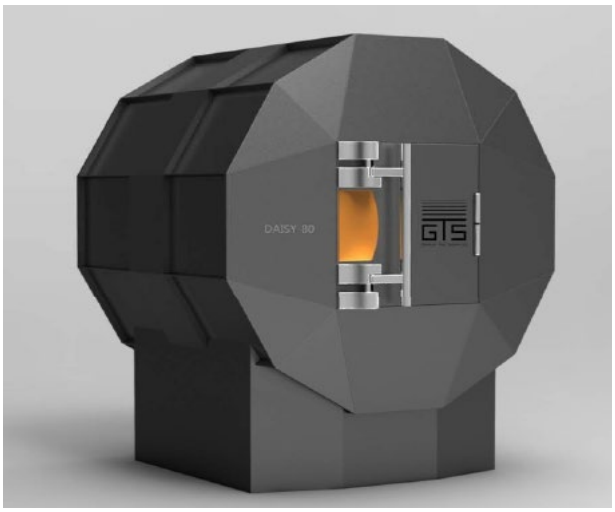
	

■ 2D Antenna Lab (Smart TV Wireless Throughput Test)

Turn Table	
	

FIME EMVCo/ISO10373-6 / NFC Forum	Comprion (NFC Forum)
	

Suzhou Smart TV Antenna Chamber	
	

Shenzhen RayZone 1800


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May 2023