

Description: 1608 2.4G&5GHz Diplexer

PART NUMBER: DPX1608LL65R2455A

Features:

- Compact size : 1.6x0.8x0.6mm
- RoHS compliant

Applications:

- WLAN, 802.11a/b/g/n
- ISM Band

ELECTRICAL SPECIFICATIONS

DESCRIPTION	VALUE	
	Low Band	High Band
Pass Band	2400~2500MHz	4900~6000MHz
Insertion Loss	0.40dB (Max)	0.7dB (Max)
Return Loss	12.0dB (Min)	12.0dB (Min)
Attenuation	30dB(Min).@4800~5000MHz 32dB(Min).@7200~7500MHz	27dB(Min).@2400~2500MHz 27dB(Min).@10300~11700MHz 20dB(Min).@15450~16200MHz
Isolation	32dB(Min).@2400~2500MHz 32dB(Min).@4800~5950MHz	
Operating Temperature	-40 ~ 85°C	

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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MECHANICAL DIMENSION

Outline

Termination

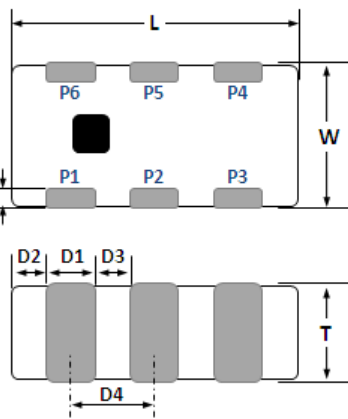
Mechanical

< Top View >

< Side View >

Terminal name	Function
P1	GND
P2	Common
P3	GND
P4	Low band
P5	GND
P6	High band

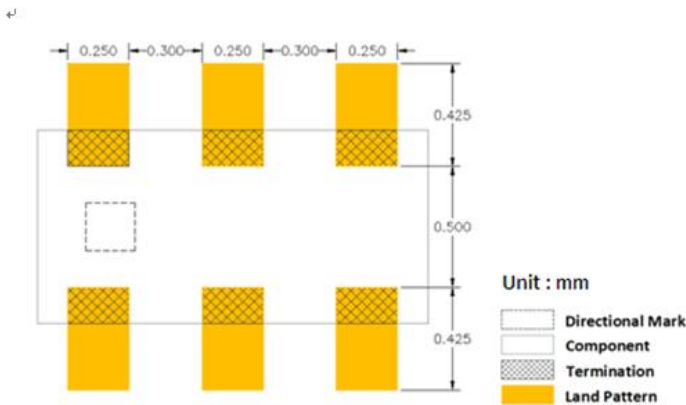
	Dimension
L (mm)	1.60±0.15
W (mm)	0.80±0.15
T (mm)	0.60±0.15
D1 (mm)	0.25±0.10
D2 (mm)	0.125±0.10
D3 (mm)	0.30±0.10
D4 (mm)	0.55±0.10
E1 (mm)	0.15±0.10



Reference design of EVB

Recommended Land Pattern

Recommended PCB Pattern



- Solder resist
- Land
- Via diameter 300um

Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

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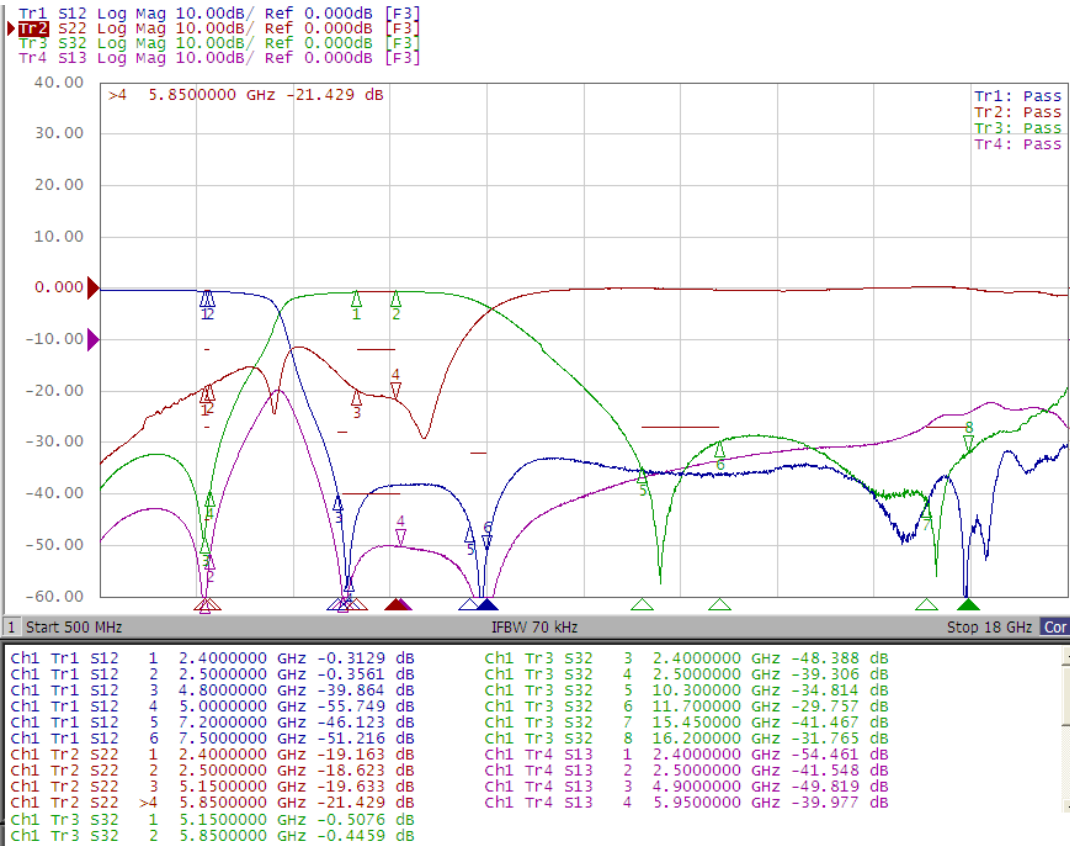
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ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C Network Analyzer
- Common port : Port 2 (Return loss : S22)
- Low band port : Port 1 (Low band Insertion loss S21, and attenuation at high band)
- High band port : Port 3 (High band Insertion loss S32, and attenuation at low band)

Frequency Characteristics

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REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 06, 2020	- New issue