Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 2.4G&5GHz Diplexer

PART NUMBER: DPX1608LL83R2455A

Features:

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

Applications:

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

ELECTRICAL SPECIFICATIONS

DESCRIPTION	Value	
Pass Band	Low Band	High Band
	2400 ~ 2500 MHz	4900 ~ 5950 MHz
Insertion Loss	0.5 dB (Max.)	1.0 dB (Max.)
Return Loss	10dB (Min.)	10dB (Min.)
Attenuation	25 dB(Min).@4800 ~ 5000 MHz 25 dB(Min).@7200 ~ 7500 MHz	32 dB(Min). @ 30 ~ 2700 MHz 15 dB(Min). @ 9800 ~ 11900 MHz 11 dB(Min). @ 14700 ~ 17850 MHz
Operating Temperature	-40 ~ 85℃	

RoHS COMPLIANT

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Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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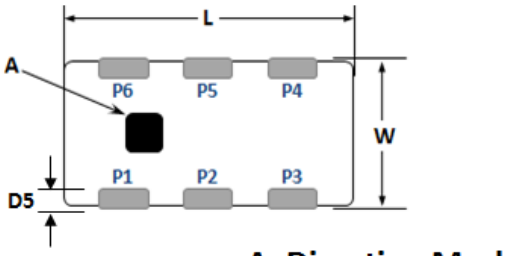
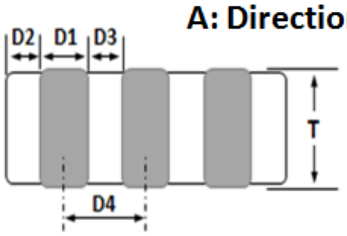
MECHANICAL DIMENSION

Outline



A: Direction Mark



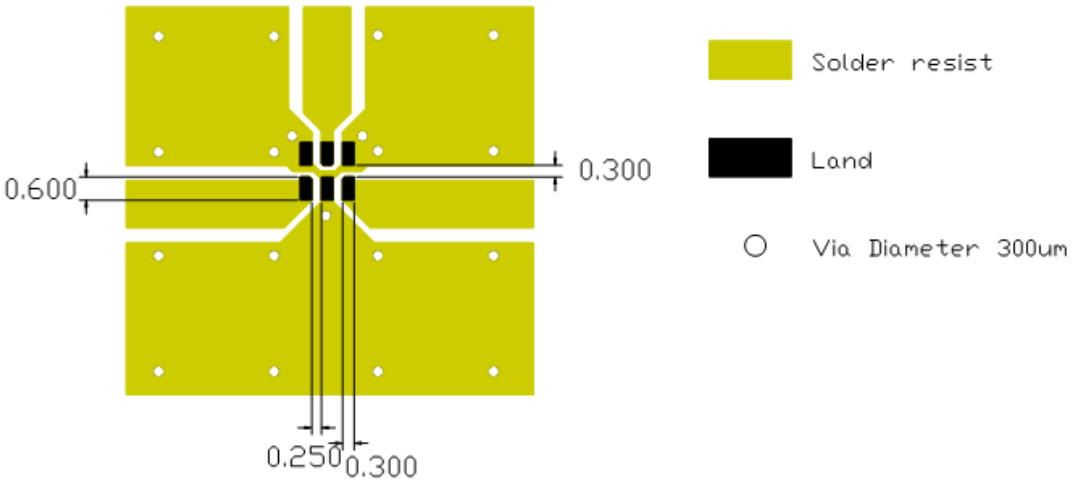
Termination

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

Mechanical

	Dimension
L (mm)	1.60±0.15
W (mm)	0.80±0.15
T (mm)	0.60±0.15
D1 (mm)	0.20±0.10
D2 (mm)	0.20±0.15
D3 (mm)	0.30±0.10
D4 (mm)	0.50±0.05
D5 (mm)	0.15±0.10

Reference design of EVB



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

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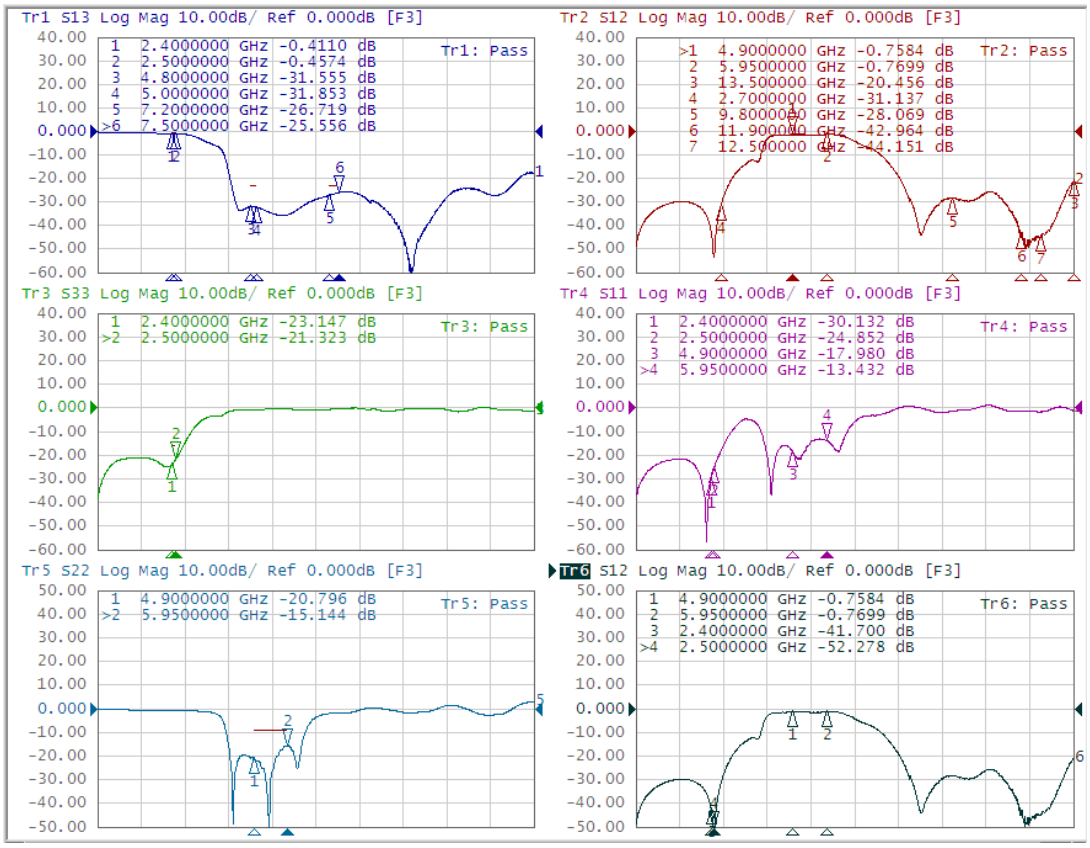
ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C Network Analyzer
- Common port : Port 1 (Return loss : S22)
- Low band port : Port 3 (Low band Insertion loss S13, and attenuation at high band)
- High band port : Port 2 (High band Insertion loss S12, and attenuation at low band)

Frequency Characteristics

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REVISION HISTORY

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

RoHS COMPLIANT