

**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	
	Low Band	High Band
<b>Pass Band</b>	2400 ~ 2500 MHz	4900 ~ 5950 MHz
<b>Insertion Loss</b>	0.5 dB (Max.)	1.0 dB (Max.)
<b>Return Loss</b>	10dB (Min.)	10dB (Min.)
<b>Attenuation</b>	25 dB(Min). @4800 ~ 5000 MHz	32 dB(Min). @ 30 ~ 2700 MHz
	25 dB(Min). @7200 ~ 7500 MHz	15 dB(Min). @ 9800 ~ 11900 MHz
		11 dB(Min). @ 14700 ~ 17850 MHz
<b>Operating Temperature</b>	-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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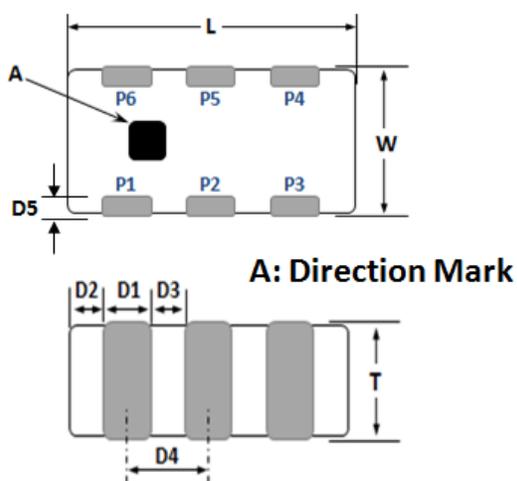
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MECHANICAL DIMENSION

Outline



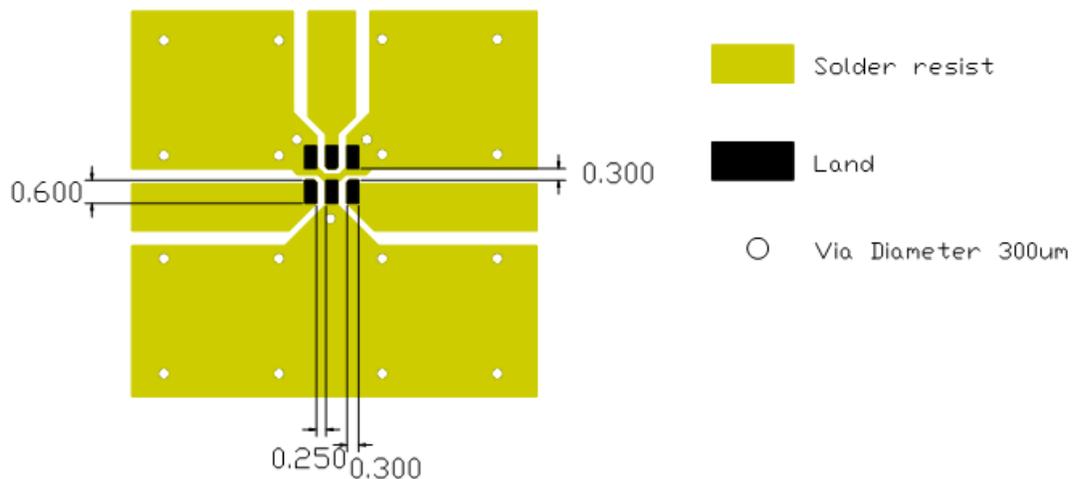
Termination

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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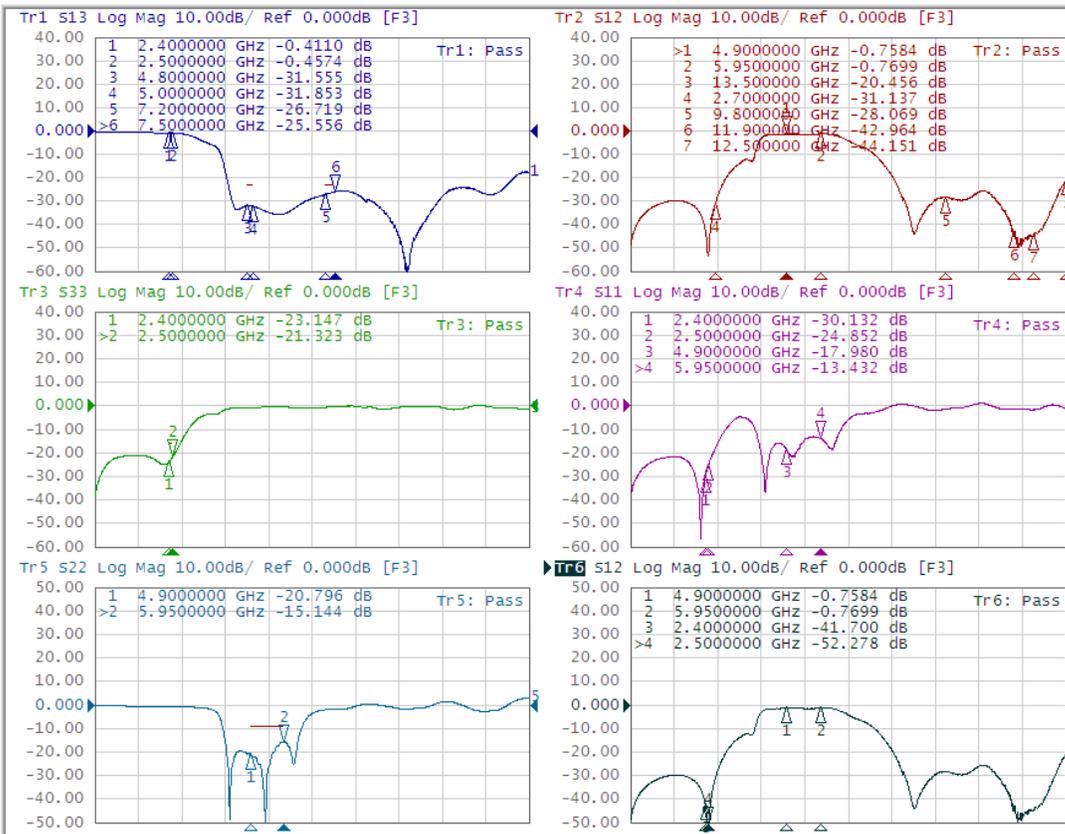
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ELECTRICAL PERFORMANCES



- 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