

Description: 1608 1.5G&2.4GHz Diplexer

PART NUMBER: DPX1608LL87R2455A

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	1575-1610 MHz	2400-2500 MHz	4900-5950 MHz
Insertion Loss	0.5dB(Typ.)	0.5dB(Typ)	0.4dB(Typ.)
	0.6dB(Max)	0.7dB(Max)	0.6dB(Max)
V.S.W.R / Return-Loss	2.0 (Max)	2.0 (Max)	2.0 (Max)
	/ 10.0 dB (Min)	/ 10.0 dB (Min)	/ 10.0 dB (Min)
Attenuation	15dB (Min). @2.4~2.5GHz	15dB (Min). @1.57~1.61GHz	
	15dB (Min). @4.9~6.0GHz		
Isolation	20 dB (Min)		
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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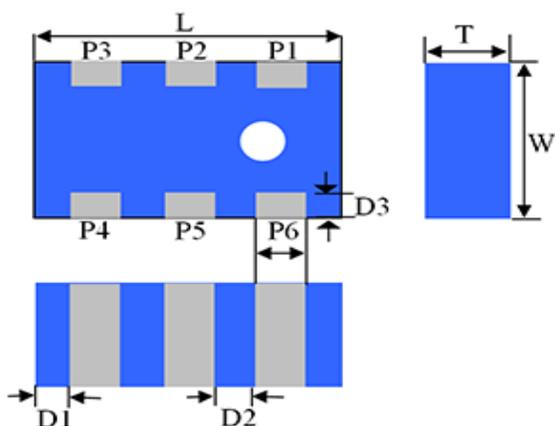
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MECHANICAL DIMENSION

Outline



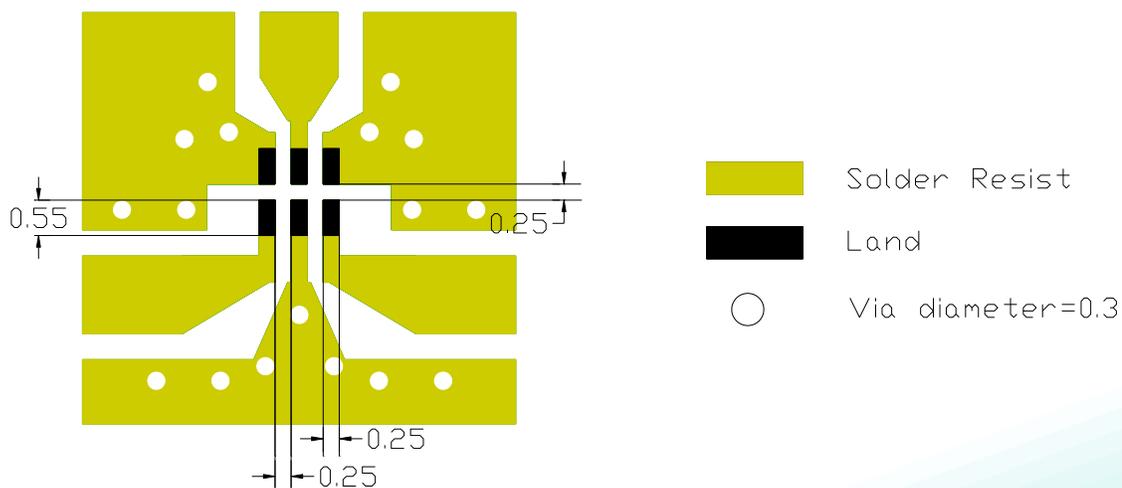
Termination

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

Mechanical

	Dimension
L (mm)	1.60±0.15
W (mm)	0.80±0.15
T (mm)	0.60±0.15
P1 (mm)	0.20±0.15
P2 (mm)	0.20±0.15
P3 (mm)	0.20±0.15
P4 (mm)	0.20±0.15
P5 (mm)	0.20±0.15
P6 (mm)	0.20±0.15
D1 (mm)	0.20±0.15
D2 (mm)	0.30±0.10
D3 (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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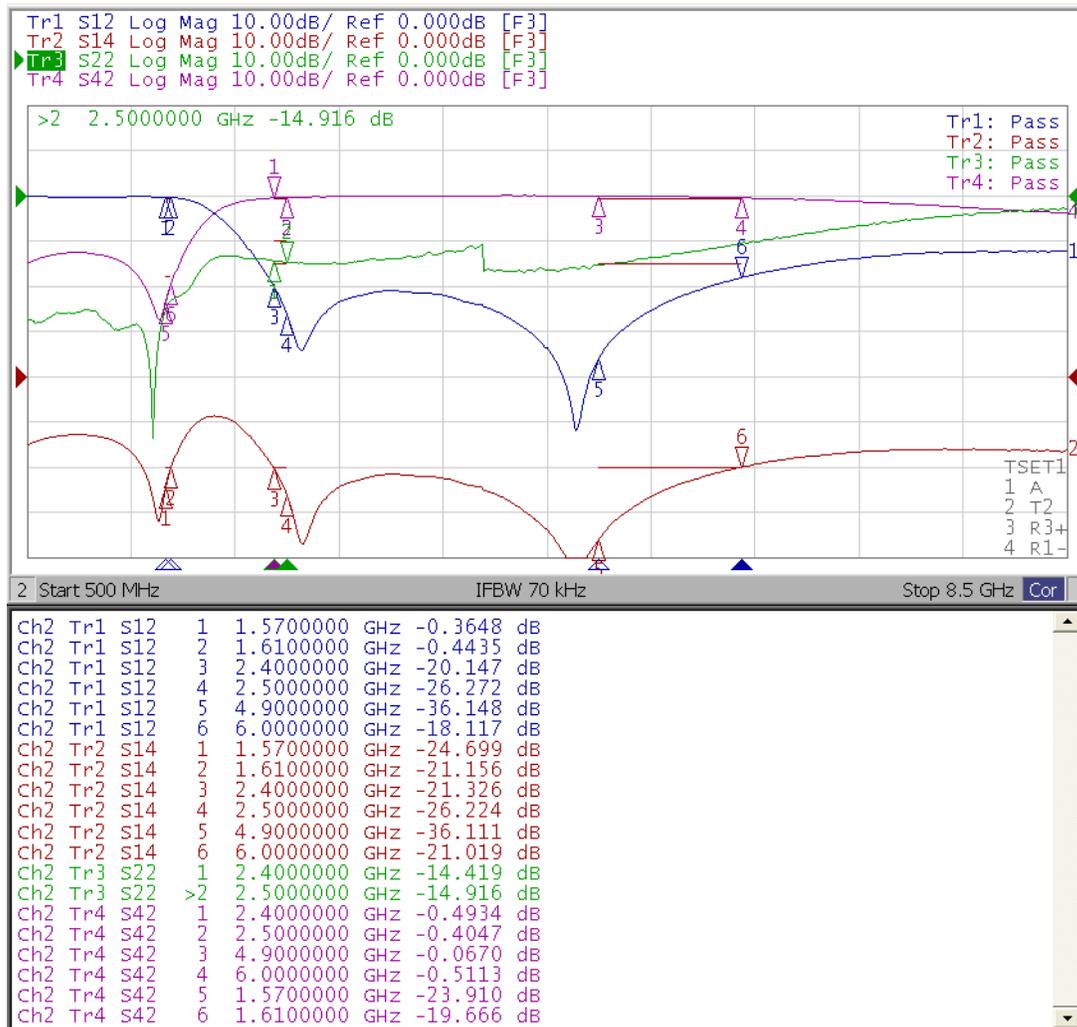
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ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C Network Analyzer
- Common port: Port 2(Return loss S22)
- Low band port: Port 1(Low band insertion loss S12, and attenuation at high band)
- High band port: Port 4(High band insertion loss S42, and attenuation at low band)

Frequency Characteristics

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REVISION HISTORY

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