

**Description: 1608 2.4G&5GHz Diplexer**

**PART NUMBER: DPX1608LL85R2455A**

**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
	2400~2500MHz	4900~6000MHz
Insertion loss	0.7dB (Max) at 25°C	0.8dB (Max) at 25°C
Return-Loss	10.0dB(Min)	12.0dB(Min)
Attenuation	20dB(Min).@4.8~5GHz 20dB(Min).@7.2~7.5GHz	28dB(Min).@860~960MHz
		23dB(Min).@1545~1605MHz
		23dB(Min).@1710~1990GHz
		28dB(Min).@2.17GHz
		8dB(Min).@8.1GHz
		15dB(Min).@8.82~9.8GHz
		27dB(Min).@9.8~11.8GHz
Isolation	Middle Band to High Band: 20dB (Min). @4.9~5.95GHz	
Operating Temperature	-40 ~ 85°C	
Dimension	1.6 x 0.8 x 0.6mm	

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

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For more information:

Pulse Worldwide Headquarters  
15255 Innovation Drive #100  
San Diego, CA 92128  
USA  
Tel:1-858-674-8100

Pulse/Larsen Antennas  
18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
Vancouver, WA 98683  
USA  
Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Do, KG  
Zeppelinstrasse 15  
Herrenberg, Germany  
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998

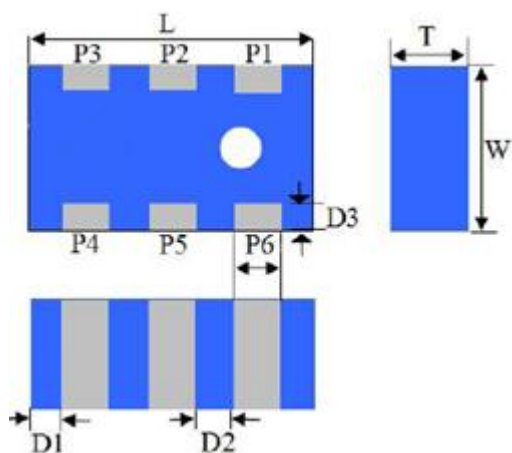


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MECHANICAL DIMENSION

Outline



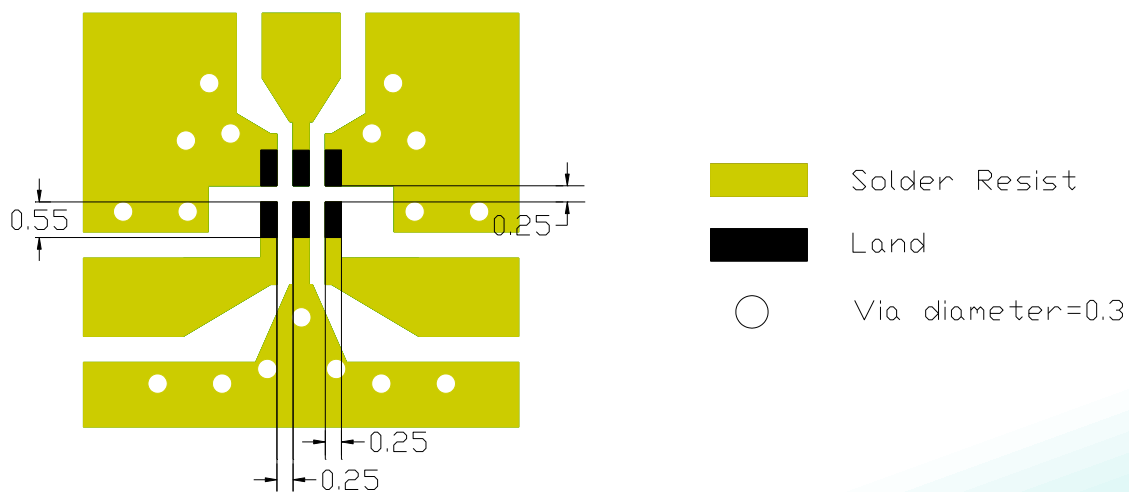
Termination

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

Mechanical

Dimension	Value
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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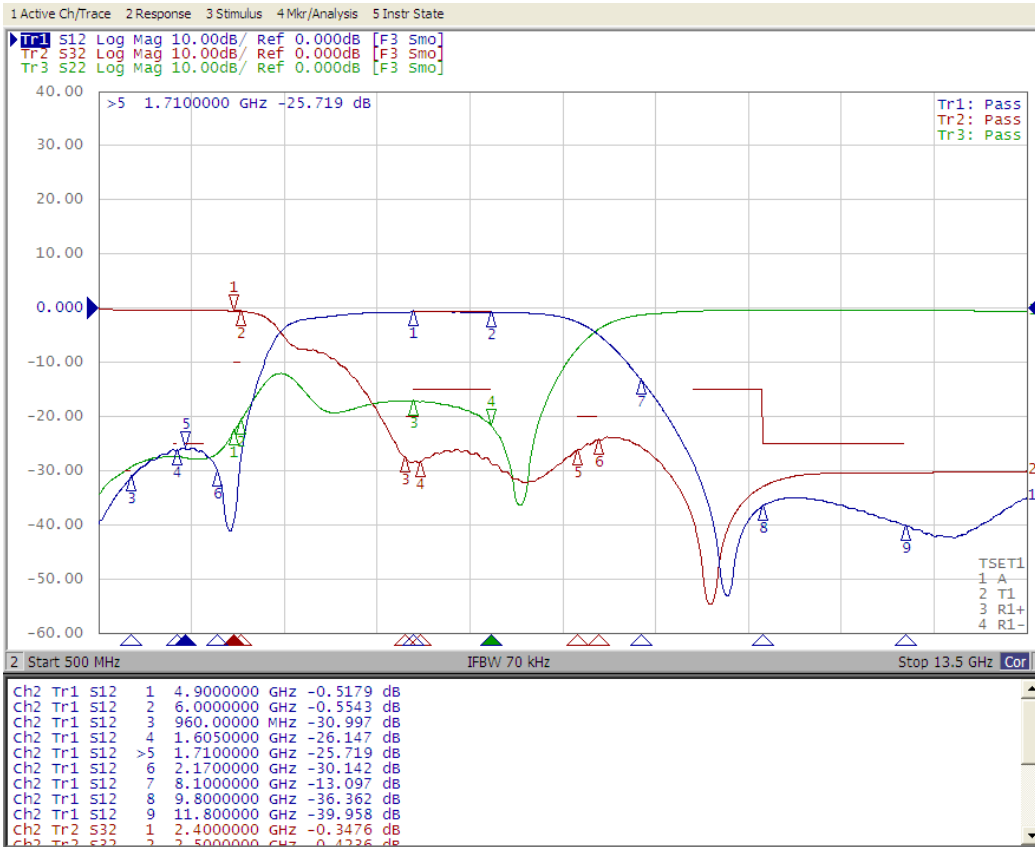
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**ELECTRICAL PERFORMANCES**



- Measured on Agilent E5071C Network Analyzer
- Common port: Port 2 (Return loss S22)
- Low band port: Port 3 (Low band insertion loss S32, and attenuation at high band)
- High band port: Port 1 (High band insertion loss S12, and attenuation at low band)

Frequency Characteristics

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### REVISION HISTORY

Revision	Date	Description
Version 1	Set. 30, 2020	- New issue