

Description: 1608 1.5&2.4GHz Diplexer

PART NUMBER: DPX1608LL88R1524A

Features:

- Size : 1.6 x 0.8 x 0.6 mm
- RoHS compliant

Applications:

- LTE (0.7~2.7GHz)

ELECTRICAL SPECIFICATIONS

DESCRIPTION	VALUE		
	Low Band	High Band	
Pass Band	1559-1610 MHz	2400-2500 MHz	4900-6000 MHz
Insertion Loss	0.6dB (Typ)	0.7dB (Typ)	0.6dB (Typ)
V.S.W.R / Return-Loss	2.0 (Max) / 10.0 dB (Min)	2.0 (Max) / 10.0 dB (Min)	2.0 (Max) / 10.0 dB (Min)
Attenuation	18dB (Min).@2400~2500MHz	20dB (Min).@1575~1610MHz	
	15dB (Min).@4900~6000MHz		
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 DRAWING

DIMENSIONS

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

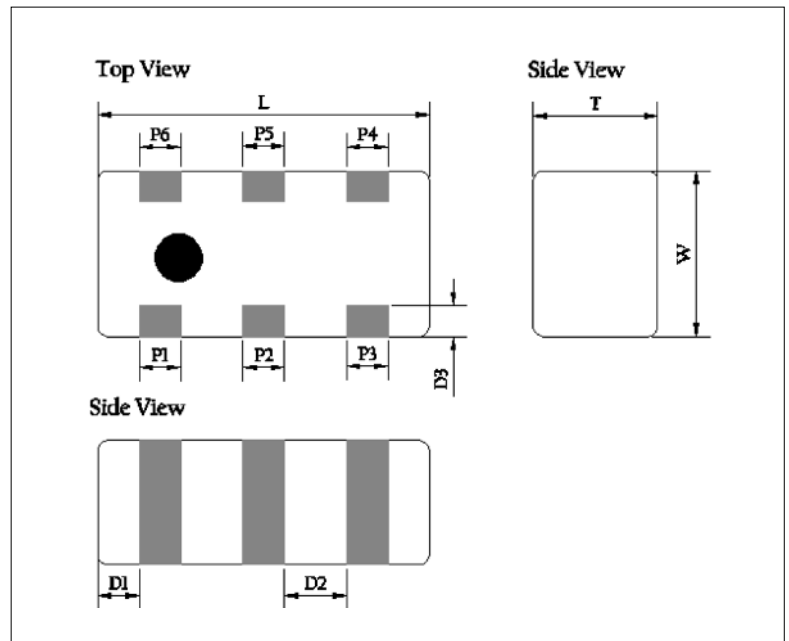


Fig. 1 Filter outlines

TERMINATION CONFIGURATION

P1	GND
P2	Common
P3	GND
P4	High Band
P5	GND
P6	Low Band

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

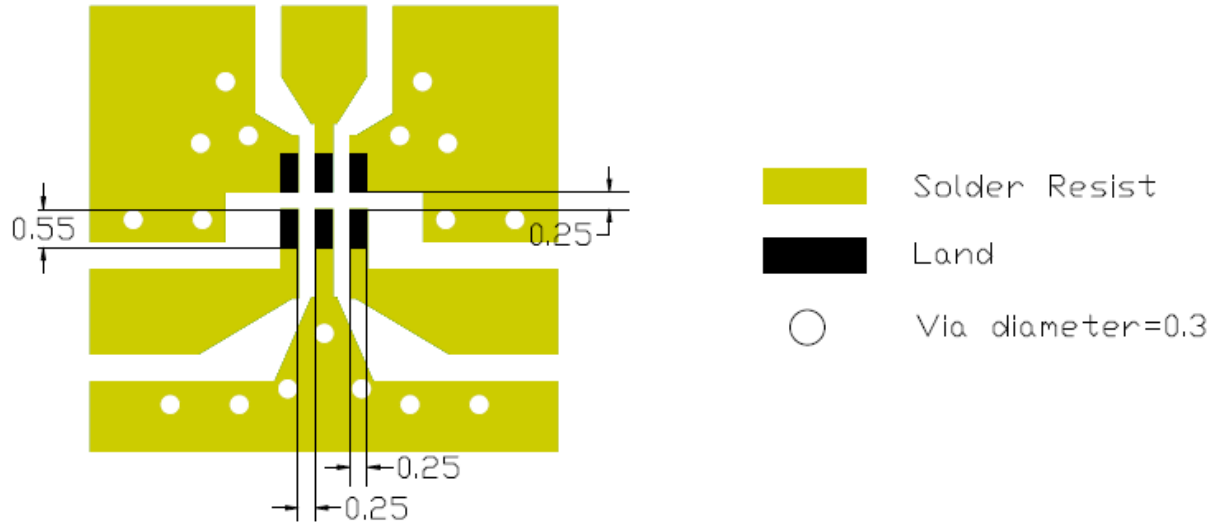
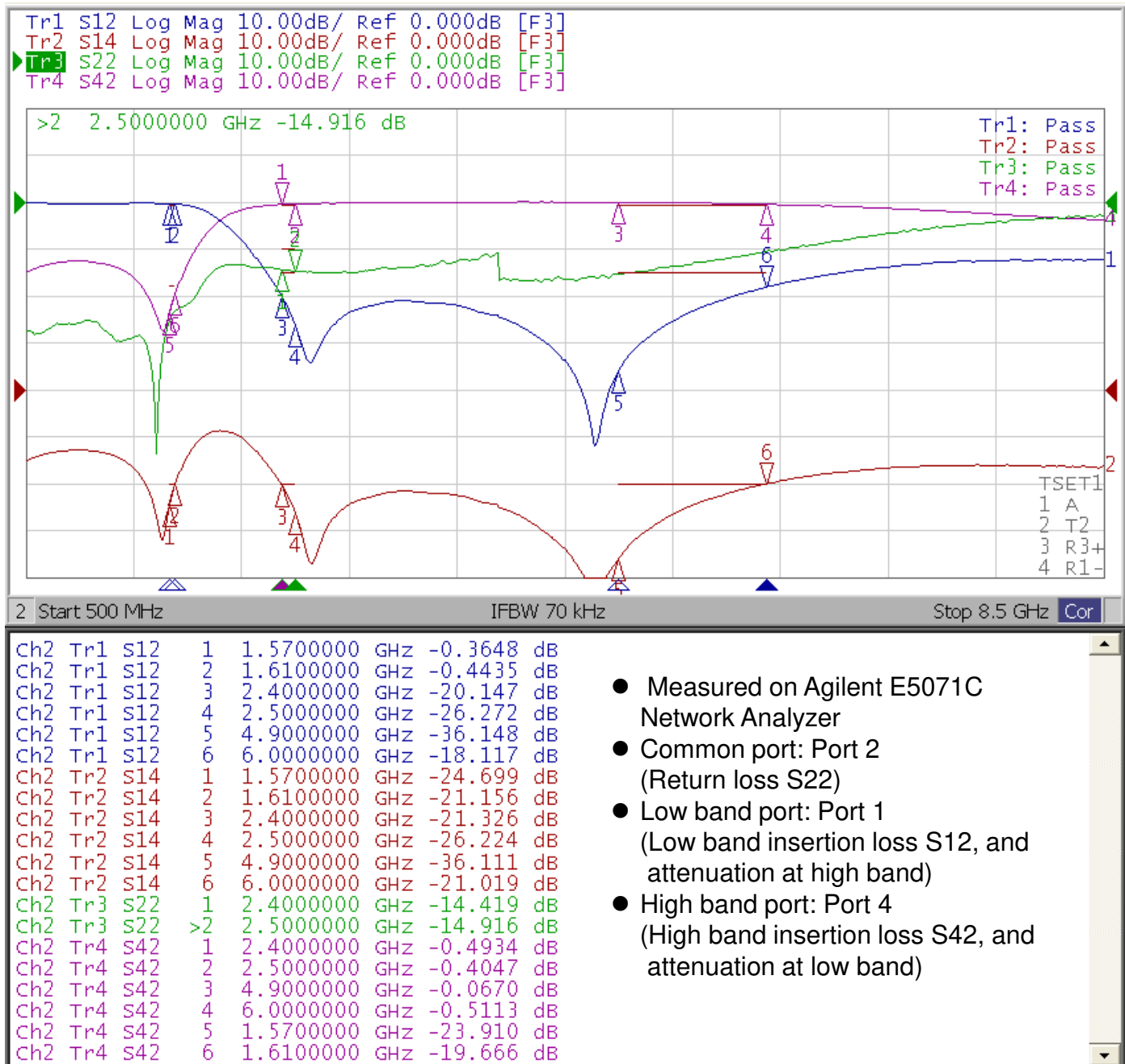


Fig. 2 Reference design of evaluation board

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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)

Fig. 3 Frequency Characteristics

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REVISION HISTORY

Revision	Date	Description
Version 01	Feb. 1, 2021	- New issue

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