

Description: 1608 0.9G&1.7GHz Diplexer

PART NUMBER: DPX1608LM70R0917A

Features:

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

Applications:

- LTE (0.7~2.7GHz)

ELECTRICAL SPECIFICATIONS

DESCRIPTION	VALUE	
	Low Band	High Band
Pass Band	698-960 MHz	1710-2700 MHz
Insertion Loss	0.8dB(Max)	0.7dB(Max)
V.S.W.R / Return-Loss	2.0 (Max) / 10.0 dB (Min)	2.0 (Max) / 10.0 dB (Min)
Attenuation	25dB (Min).@1710~2700GHz	20dB (Min).@698~960 MHz 20dB (Min).@5150~5850 MHz
Isolation	20dB (Min).@698~960 MHz 25dB (Min).@1710~2700 MHz	
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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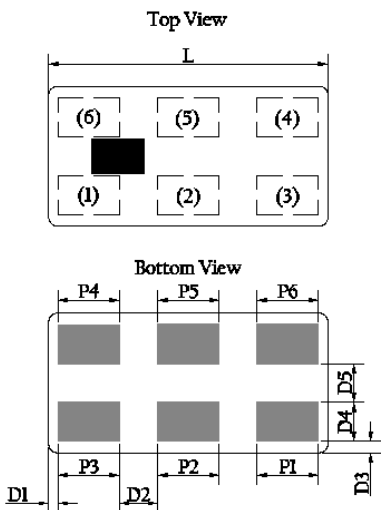
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MECHANICAL DIMENSION

Outline



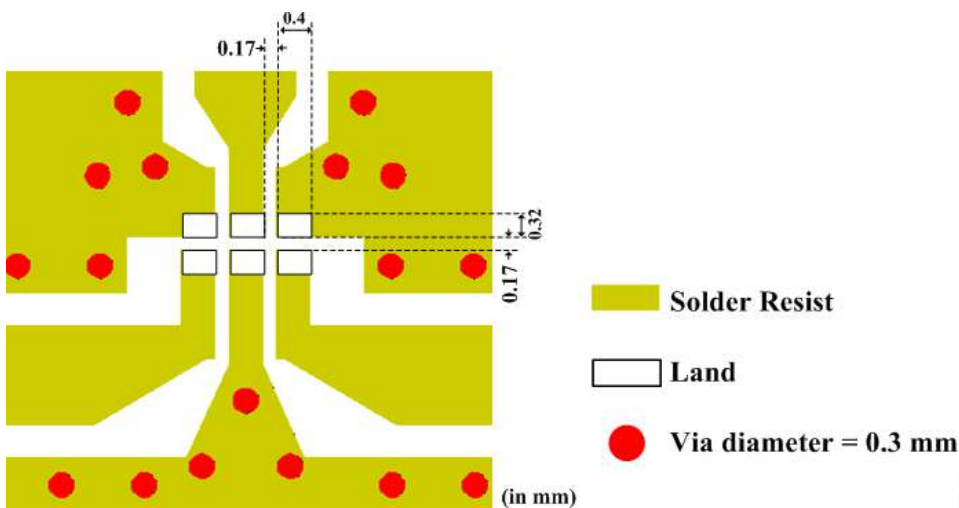
Termination

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

Mechanical

	Dimension
L (mm)	1.60 ± 0.15
W (mm)	0.80 ± 0.15
T (mm)	0.60 ± 0.15
P1 (mm)	0.35 ± 0.10
P2 (mm)	0.35 ± 0.10
P3 (mm)	0.35 ± 0.10
P4 (mm)	0.35 ± 0.10
P5 (mm)	0.35 ± 0.10
P6 (mm)	0.35 ± 0.10
D1 (mm)	0.055 ± 0.05
D2 (mm)	0.22 ± 0.10
D3 (mm)	0.065 ± 0.05
D4 (mm)	0.225 ± 0.10
D5 (mm)	0.22 ± 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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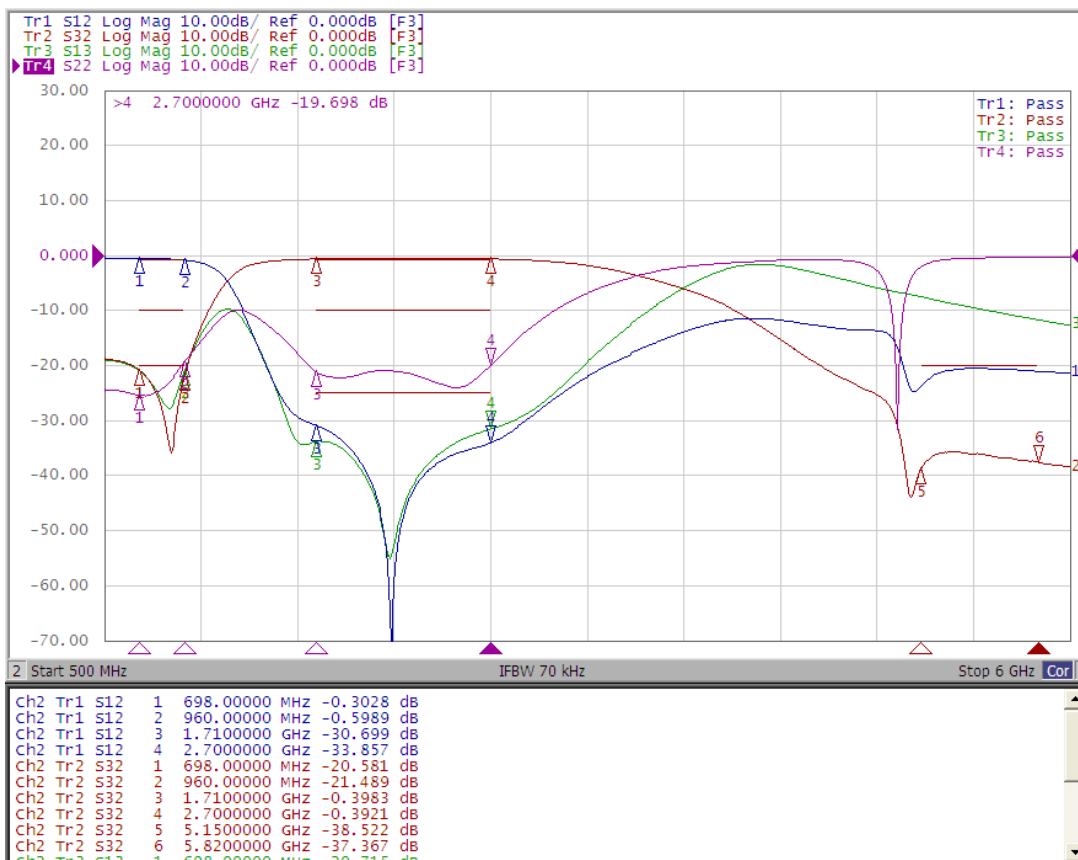
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ELECTRICAL PERFORMANCES



- 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