Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

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	
Pass Band	Low Band	High 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℃	

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Tel: 86 512 6807 9998

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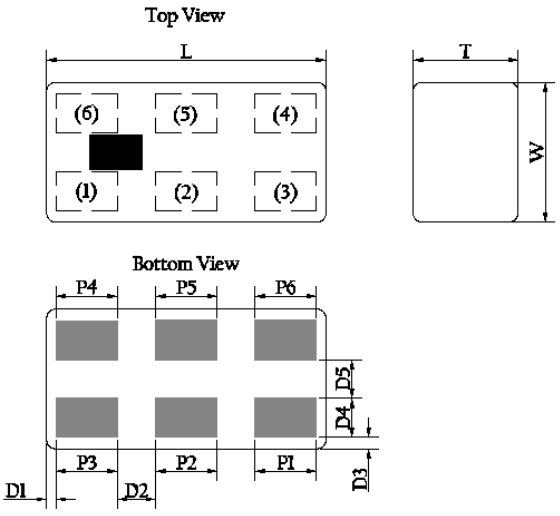
MECHANICAL DIMENSION

Outline



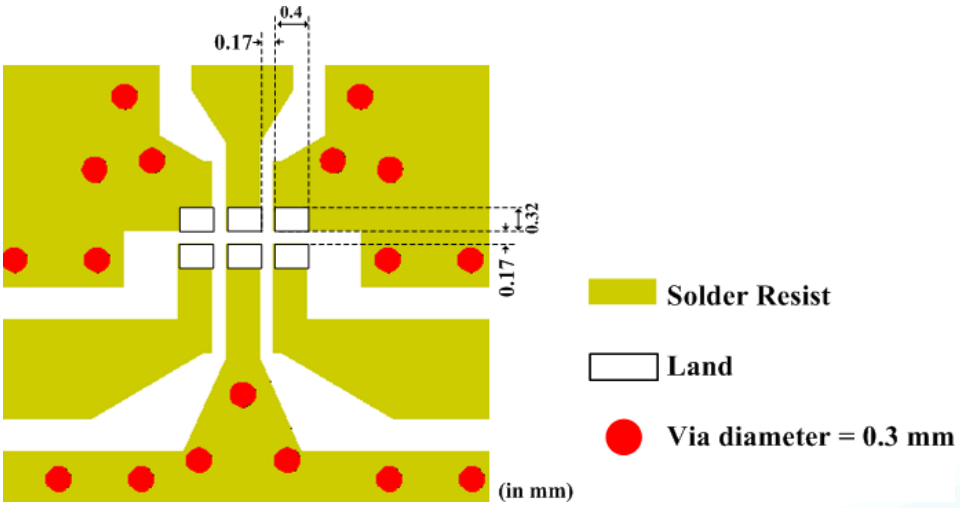
Termination

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.

RoHS COMPLIANT

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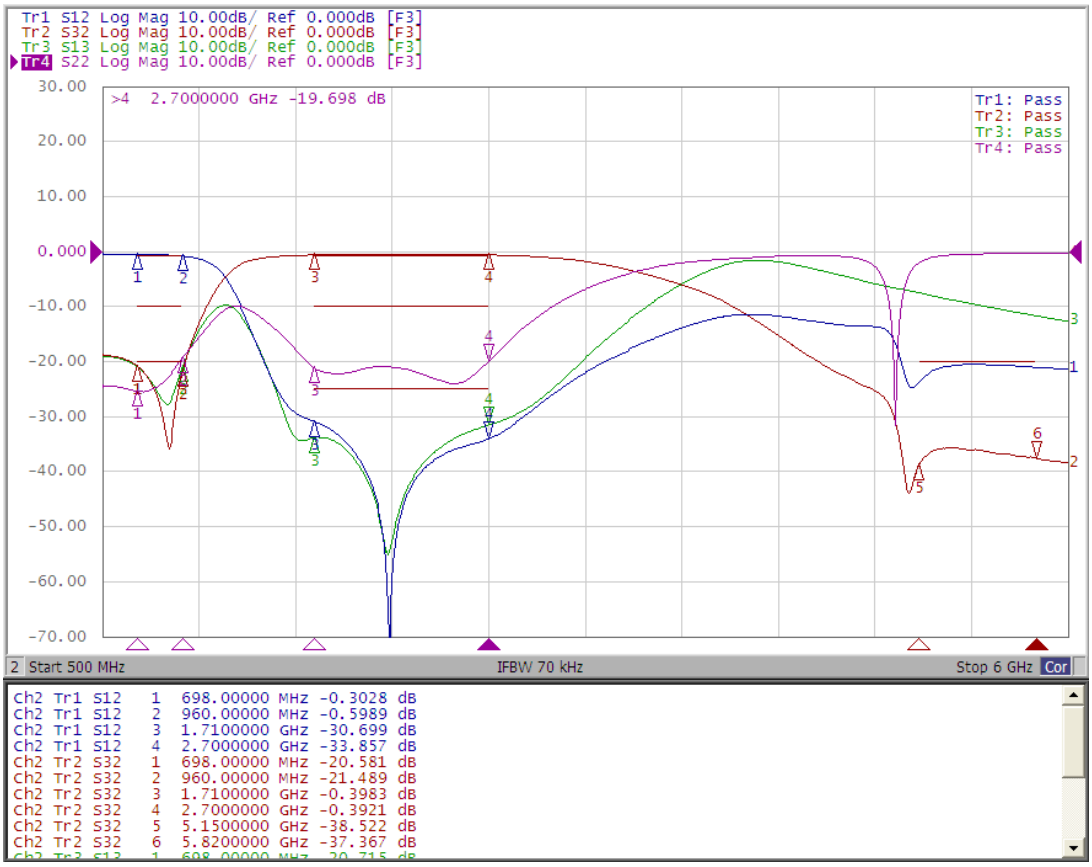
ELECTRICAL PERFORMANCES



Ch2 Tr1 S12	1	698.00000 MHz	-0.3028 dB
Ch2 Tr1 S12	2	960.00000 MHz	-0.5989 dB
Ch2 Tr1 S12	3	1.7100000 GHz	-30.699 dB
Ch2 Tr1 S12	4	2.7000000 GHz	-33.857 dB
Ch2 Tr2 S32	1	698.00000 MHz	-20.581 dB
Ch2 Tr2 S32	2	960.00000 MHz	-21.489 dB
Ch2 Tr2 S32	3	1.7100000 GHz	-0.3983 dB
Ch2 Tr2 S32	4	2.7000000 GHz	-0.3921 dB
Ch2 Tr2 S32	5	5.1500000 GHz	-38.522 dB
Ch2 Tr2 S32	6	5.8200000 GHz	-37.367 dB

- 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

RoHS COMPLIANT