Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 2.4G&5GHz Diplexer

PART NUMBER: DPX1608LL66R2455A

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	0.95dB (Max) at 25°C	0.90dB (Max) at 25°C
Return Loss	10.0 dB (Min)	10.0 dB (Min)
Attenuation	25dB(Min).@700~960MHz 10dB(Min).@960~1300MHz 28dB(Min).@4800~5000MHz 25dB(Min).@7200~7500MHz	30dB(Min).@1200~1500MHz 25dB(Min).@1600~2000MHz 25dB(Min).@2300~2700MHz 15dB(Min).@2700~3000MHz 25dB(Min).@10000~11800MHz 15dB(Min).@15000~17700MHz
Isolation	28dB(Min).@2400~2500MHz 28dB(Min).@4800~5000MHz	
Operating Temperature	-40 ~ 85℃	

RoHS COMPLIANT

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Tel: 86 512 6807 9998

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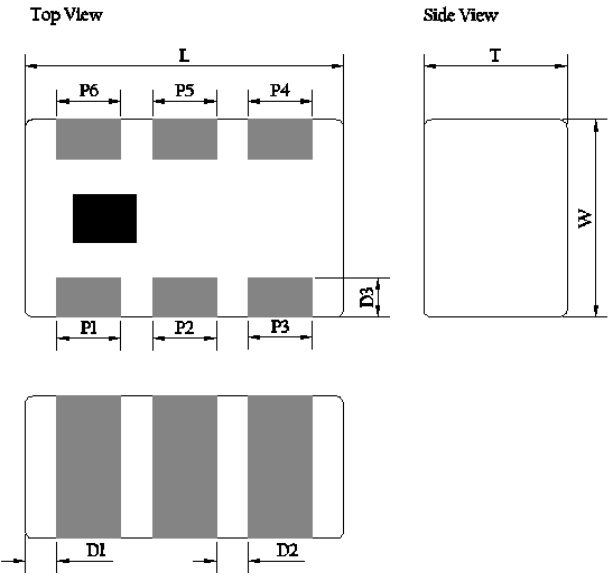
MECHANICAL DIMENSION

Outline



Termination

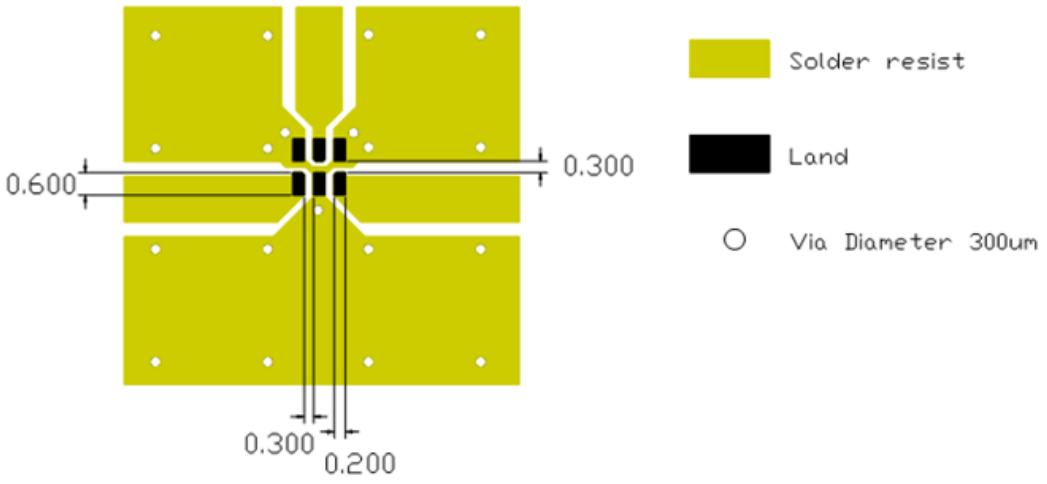
Terminal name	Function
P1	High band
P2	GND
P3	Low band
P4	GND
P5	Common
P6	GND

Mechanical

	Dimension
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

Recommended PCB Pattern



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

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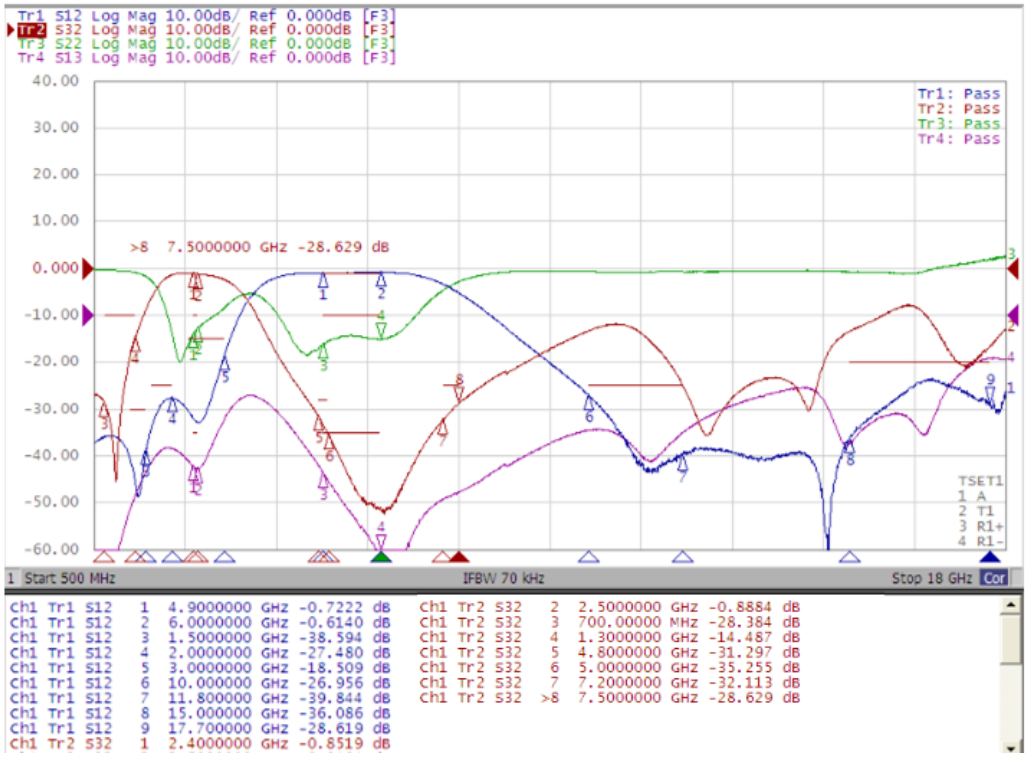
ELECTRICAL PERFORMANCES



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