

Description: 2012 2.4G&5GHz Diplexer

PART NUMBER: DPX2012LL75R2455A

Features:

- Compact size : 2.0x1.2x0.5mm
- RoHS compliant

Applications:

- WLAN, 802.11a/b/g/n
- ISM Band

ELECTRICAL SPECIFICATIONS

DESCRIPTION	VALUE	
	Low Band	High Band
Pass Band	2400~2500MHz	4900~5950MHz
Insertion loss	0.65dB (Max)	0.65dB (Max)
V.S.W.R	2.0(Max)	2.0(Max)
/Return-Loss	/10.0dB(Min)	/10.0dB(Min)
Attenuation	20dB(Min).@4800~5000MHz 20dB(Min).@7200~7500MHz	20dB (Min).@824~915 MHz 20dB (Min).@1800~2500 MHz 15dB (Min).@9800~11900 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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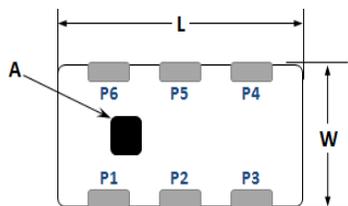
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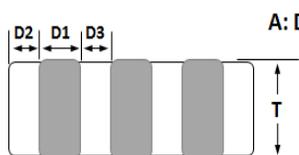
MECHANICAL DIMENSION

Outline

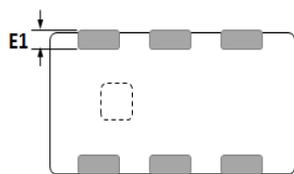
< Top View >



< Side View >



< Bottom View >



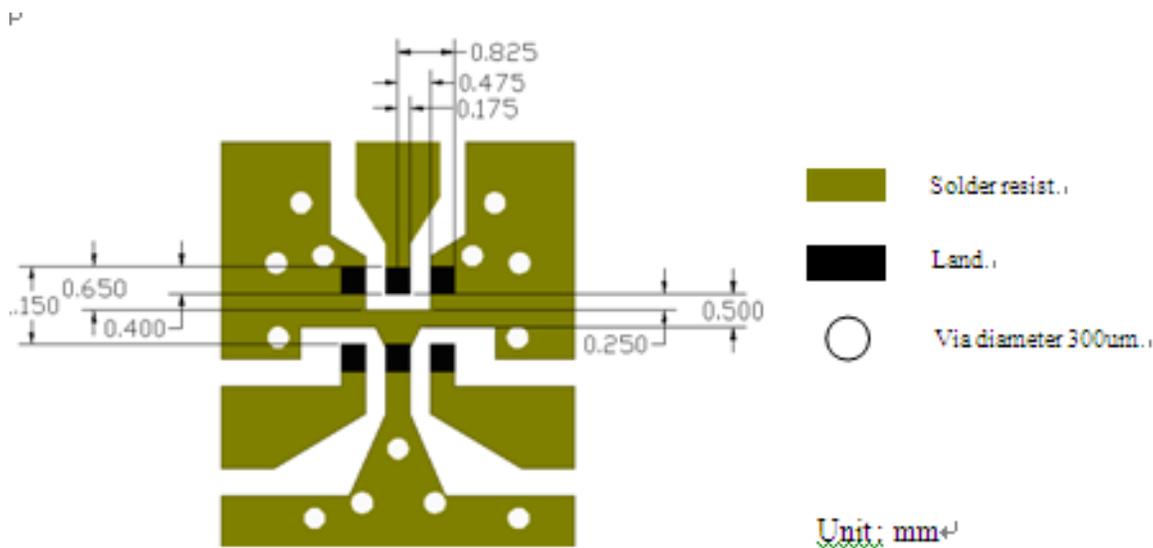
Termination

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

Mechanical

	Dimension
L (mm)	2.00±0.15
W (mm)	1.25±0.15
T (mm)	0.50±0.15
P1 (mm)	0.35±0.15
P2 (mm)	0.35±0.15
P3 (mm)	0.35±0.15
P4 (mm)	0.35±0.15
P5 (mm)	0.35±0.15
P6 (mm)	0.35±0.15
D1 (mm)	0.35±0.15
D2 (mm)	0.175±0.15
D3 (mm)	0.3±0.15
E1(mm)	0.25±0.15

Reference design of EVB



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

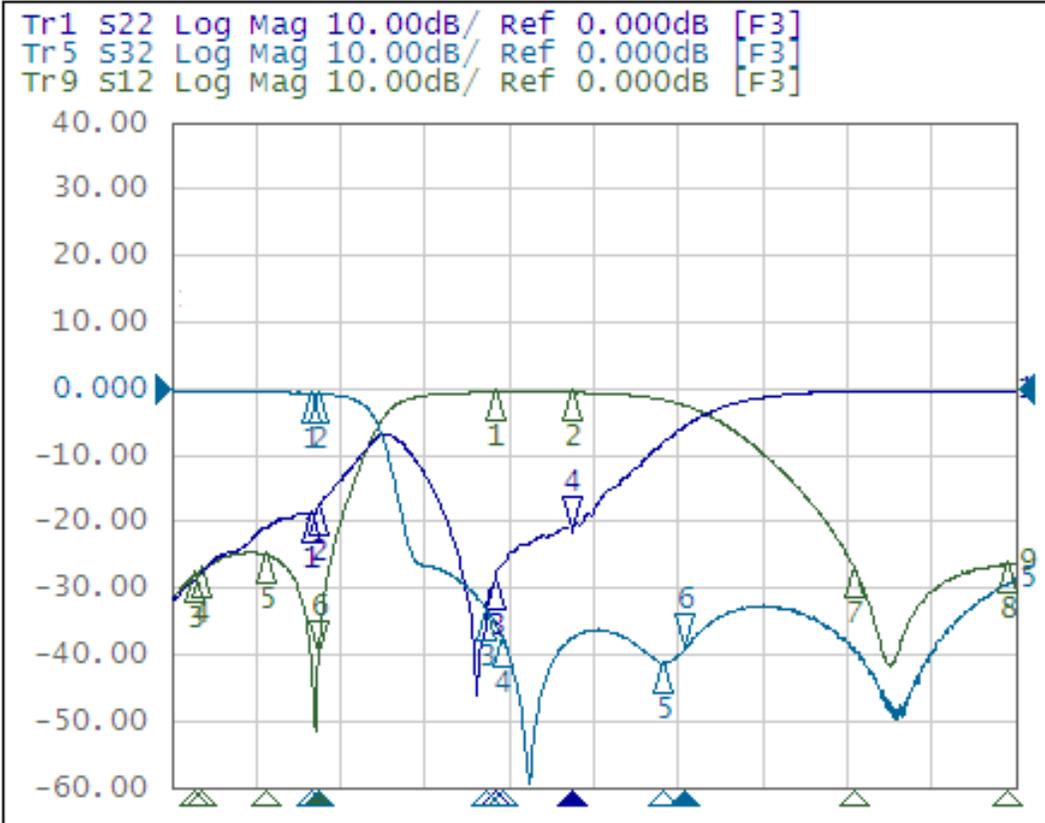
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ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C Network Analyzer
- Common port: Port 2 (Return loss S22)
- 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	Oct. 06, 2020	- New issue