

**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	
Pass Band	Low Band	High 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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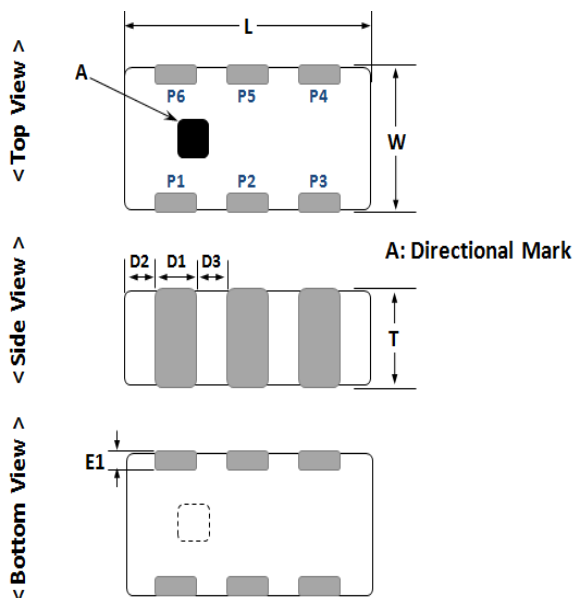
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### MECHANICAL DIMENSION

#### Outline



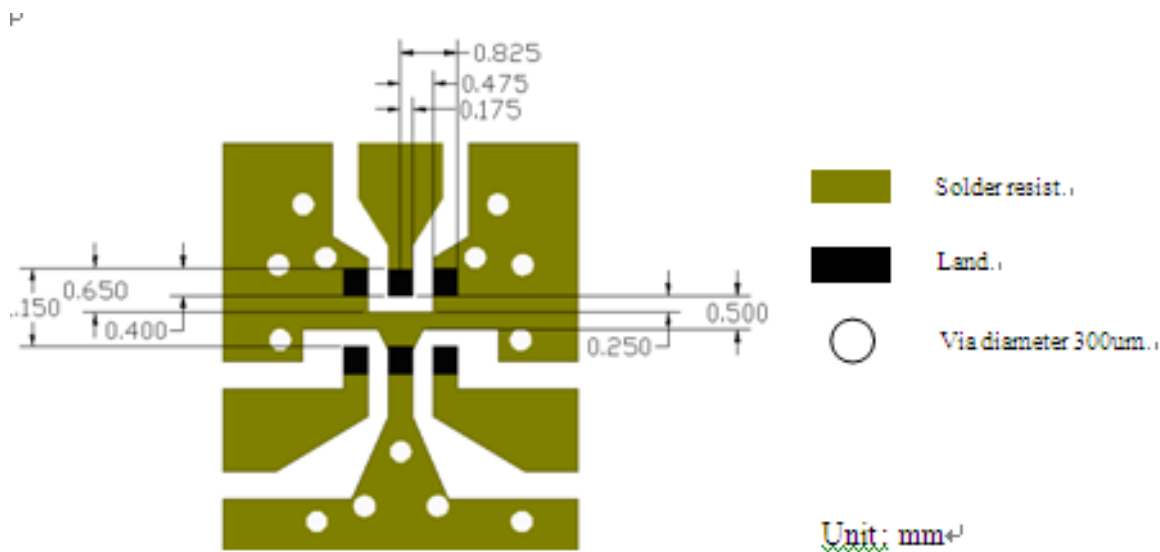
#### Termination

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

#### Mechanical

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

### Reference design of EVB



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

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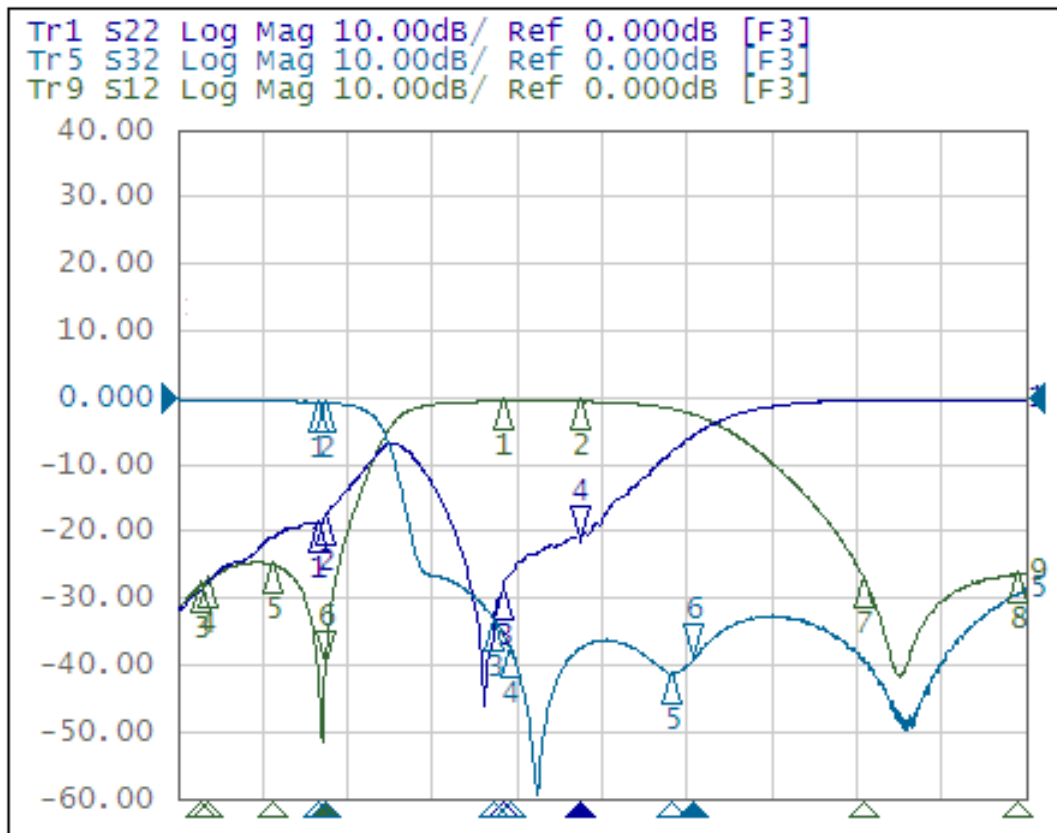
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### ELECTRICAL PERFORMANCES



- 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

# Mouser Electronics

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