

Description: 2012 1.57G&2.4G&5GHz Triplexer

PART NUMBER: TPX2012LL95R1525A

#### **Features:**

- Compact size: 2.0x1.2x0.9mm
- RoHS compliant

# **Applications:**

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

#### **ELECTRICAL SPECIFICATIONS**

DESCRIPTION		VALUE	
Pass Band	Low Band	Middle Band	High Band
Pass Danu	1570~1610MHz	2400~2500MHz	4900~5950MHz
Insertion loss	0.8dB (Max) at 25℃	0.7dB (Max) at 25℃	0.8dB (Max) at 25℃
V.S.W.R /Return-Loss	2.0(Max)/10.0dB(Min)	2.0(Max) /10.0dB(Min)	1.6(Max) /13.0dB(Min)
Attenuation	20dB(Min).@2.4~2.5GHz 20dB(Min).@4.8~6.0GHz	17.5dB(Min).@4.8~5.0GHz 10dB(Min).@7.2~7.5GHz 10dB(Min).@9.6~10.0GHz	27dB(Min).@0.86~0.96GHz 25dB(Min).@1.545~1.605GHz 25dB(Min).@1.71~1.99GHz 30dB(Min).@2.17GHz 8dB(Min).@8.1GHz 15dB(Min).@8.82~9.8GHz 27dB(Min).@9.8~10.76GHz 25dB(Min).@10.76~11.8GHz
Isolation	Middle Band	nd to High Band: 17dB(Min). @4 I to Low Band: 20dB(Min).@1.55 to Low Band: 25dB(Min). @1.55	59~1.606GHz
Operating Temperature		-40 ~ 85°C	
Dimension		2.0 x 1.2 x 0.9mm	

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION



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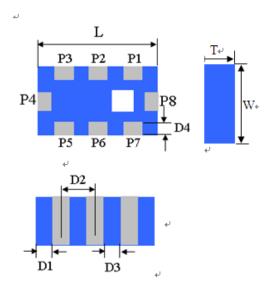


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### **MECHANICAL DIMENSION**

### **Outline**



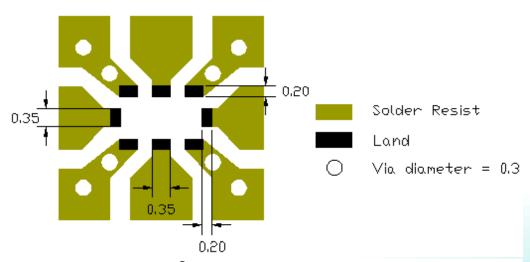
### **Termination**

Terminal name	Dimension
P1	GND
P2	Common
P3	GND
P4	Low band
P5	GND
P6	High band
P7	GND
P8	Middle band

### **Mechanical**

	Dimension
L (mm)	2.00±0.15
W (mm)	1.25±0.15
T (mm)	$0.90 \pm 0.15$
P1 (mm)	$0.40 \pm 0.15$
P2 (mm)	$0.40 \pm 0.15$
P3 (mm)	$0.40 \pm 0.15$
P4 (mm)	$0.50 \pm 0.15$
P5 (mm)	$0.40 \pm 0.15$
P6 (mm)	$0.40 \pm 0.15$
P7 (mm)	$0.40 \pm 0.15$
P8 (mm)	$0.50 \pm 0.15$
D1 (mm)	0.2±0.15
D2 (mm)	0.65±0.15
D3 (mm)	$0.35 \pm 0.15$
D4 (mm)	0.3±0.15

## Reference design of EVB



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

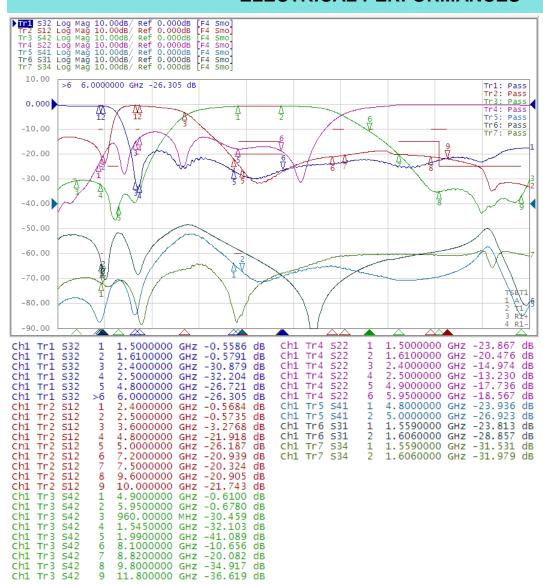




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#### **ELECTRICAL PERFORMANCES**



- Measured on Agilent E5071C Network Analyzer
- Common port: Port 2 (Return loss S22)
- Low band port: Port 3 (Low band insertion loss S32)
- Middle band port Port1(Middle band insertion loss S12)
- High band port: Port 4 (High band insertion loss S42)

Frequency Characteristics



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		REVISION HISTORY	
Revision	Date	Description	
Version 1	Set. 30, 2020	- New issue	

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