

DATA SHEET

WIRELESS COMPONENTS

Triplexer
TPX2012LL95R1525A

1.57/2.4/5 GHz
2012 Series



FEATURES

- Compact size design
- RoHS compliant

APPLICATIONS

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

ORDERING INFORMATION

All part numbers are identified by the series, packing type, material, size, antenna type, working frequency and packing quantity.

PART NUMBER

TPX 2012 LL 95 R 1525A
 (1) (2) (3) (4) (5) (6)

(1) PRODUCT

TPX = Triplexer

(2) SIZE

2012 = 2.0 × 1.2 mm

(3) MATERIALS

Material Code LL

(4) TYPE

95 = Type 95

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

1525 = 1.57/2.4/5GHz

PHYCOMP CTC

CFL4111714951254K

I2NC

411171495125

SPECIFICATION

Table 1

DESCRIPTION	VALUE		
	Low Band	Middle Band	High Band
Pass Band	1570~1610MHz	2400~2500MHz	4900~5950MHz
Insertion loss	0.8dB (Max) at 25°C	0.7dB (Max) at 25°C	0.8dB (Max) at 25°C
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 to High Band: 17dB(Min). @4.8~5.0GHz Middle Band to Low Band: 20dB(Min).@1.559~1.606GHz High Band to Low Band: 25dB(Min). @1.559~1.606GHz		
Operating Temperature	-40 ~ 85°C		
Dimension	2.0 x 1.2 x 0.9mm		

DIMENSIONS

Table 2 Machinical Dimension

	DIMENSION
L (mm)	2.00±0.15
W (mm)	1.25±0.15
T (mm)	0.9±0.15
P1 (mm)	0.4±0.15
P2 (mm)	0.4±0.15
P3 (mm)	0.4±0.15
P4 (mm)	0.5±0.15
P5 (mm)	0.4±0.15
P6 (mm)	0.4±0.15
P7 (mm)	0.4±0.15
P8 (mm)	0.5±0.15
D1 (mm)	0.2±0.15
D2 (mm)	0.65±0.15
D3 (mm)	0.35±0.15
D4 (mm)	0.3±0.15

OUTLINES

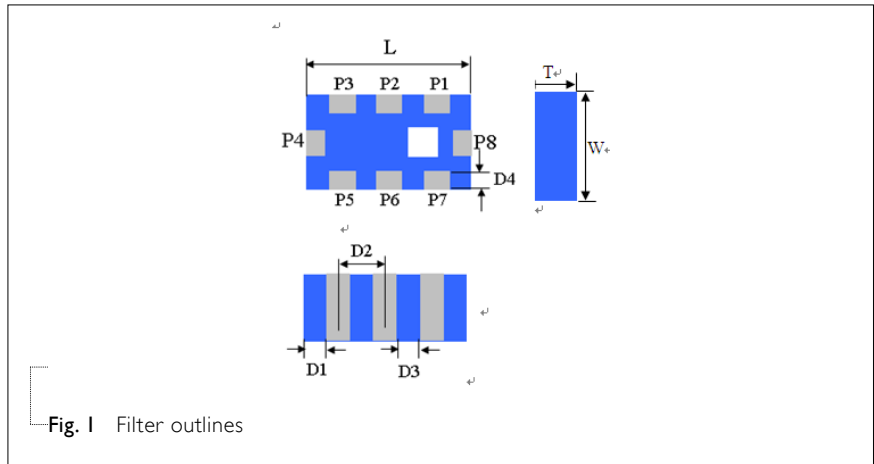


Fig. 1 Filter outlines

Table 3 Termination configuration

TERMINAL NAME	FUNCTION
P1	Ground
P2	Common port
P3	Ground
P4	Low band port
P5	Ground
P6	High band port
P7	Ground
P8	Middle band port

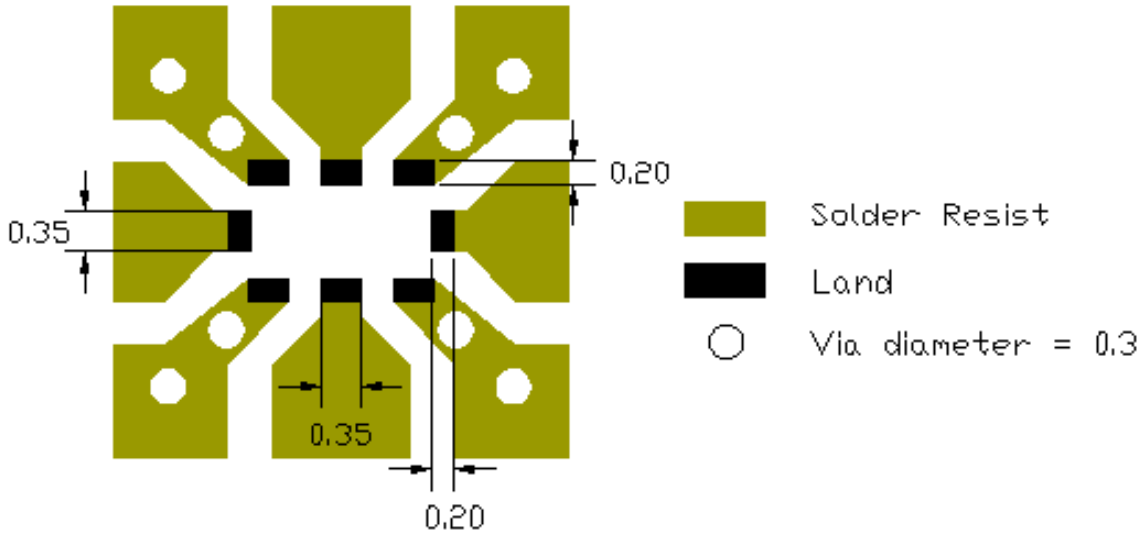
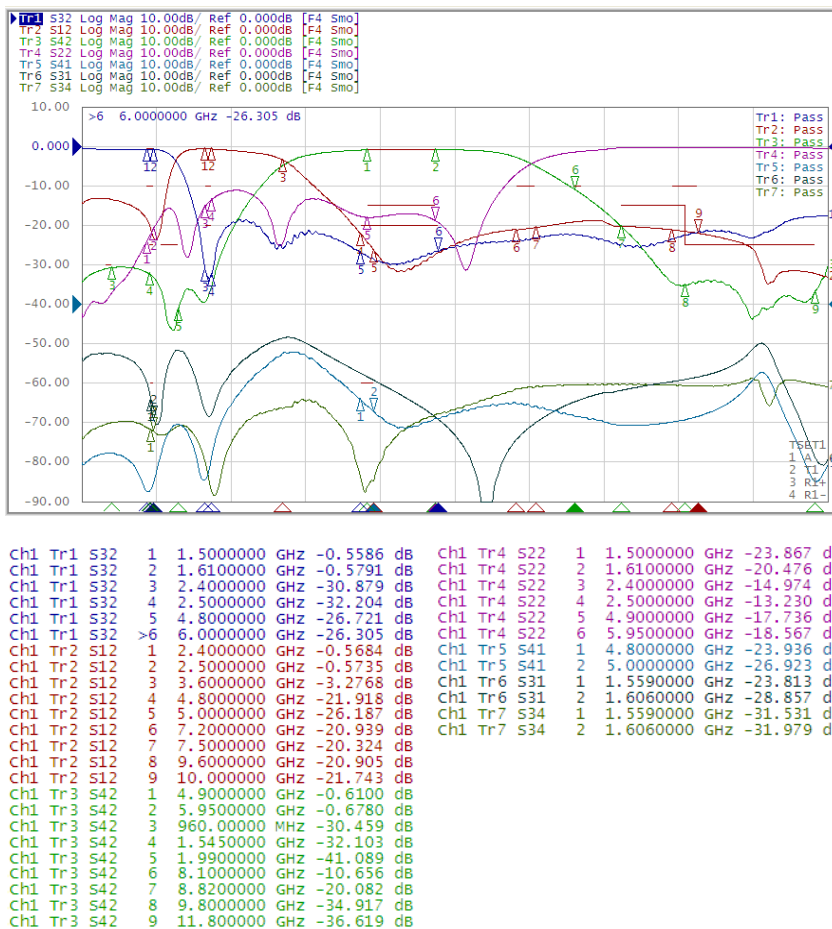


Fig. 2 Reference design of evaluation board

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)

Fig. 3 Frequency Characteristics

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
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Version 1	Aug. 05, 2014		
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			- New data sheet of Triplexer
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