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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# DATA SHEET

WIRELESS COMPONENTS

Diplexer  
DPX2012U85R2455A

2.4 AND 5 GHz  
2012 Series



## FEATURES

- Compact size design
- RoHS compliant

## APPLICATIONS

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

## ORDERING INFORMATION

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

## PART NUMBER

**DPX 2012 LL 85 R 2455A**  
(1) (2) (3) (4) (5) (6)

### (1) PRODUCT

DPX = Diplexer

### (2) SIZE

2012 = 2.0 × 1.2 mm

### (3) MATERIALS

Material Code LL

### (4) TYPE

85 = Type 85

### (5) PACKING STYLE

R = Tape and Reel

### (6) WORKING FREQUENCY

2455 = 2.4/5GHz

## PHYCOMP CTC

CFL4111714852524K

## I2NC

411171485252

## SPECIFICATION

Table 1

DESCRIPTION	VALUE	
Pass Band	2400-2500 MHz	4900~5950 MHz
Insertion Loss	0.7dB(Max)	0.9dB(Max)
V.S.W.R	2.0(Max)	2.0(Max)
Attenuation	20dB min.@4900~5900MHz	20dB min.@2400~2500MHz
Operating Temperature	-40~85°C	

## DIMENSIONS

Table 2 Machinical Dimension

	DIMENSION
L (mm)	2.00 ±0.10
W (mm)	1.25 ±0.10
T (mm)	0.85 ±0.10
P1 (mm)	0.30 ±0.15
P2 (mm)	0.30 ±0.15
P3 (mm)	0.30 ±0.15
P4 (mm)	0.30 ±0.15
P5 (mm)	0.30 ±0.15
P6 (mm)	0.30 ±0.15
P7 (mm)	0.30 ±0.15
P8 (mm)	0.30 ±0.15
D1 (mm)	0.20 ±0.10
D2 (mm)	0.65 ±0.15
D3 (mm)	0.35 ±0.15
D4 (mm)	0.30 ±0.15

## OUTLINES

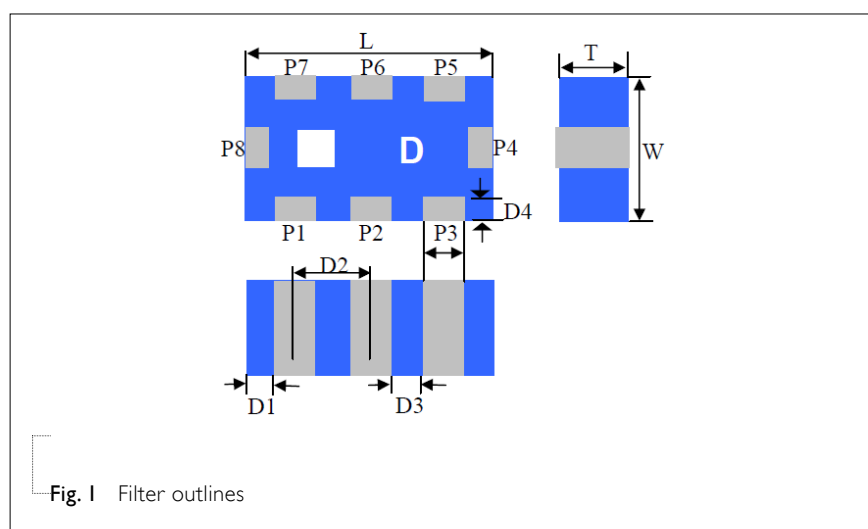
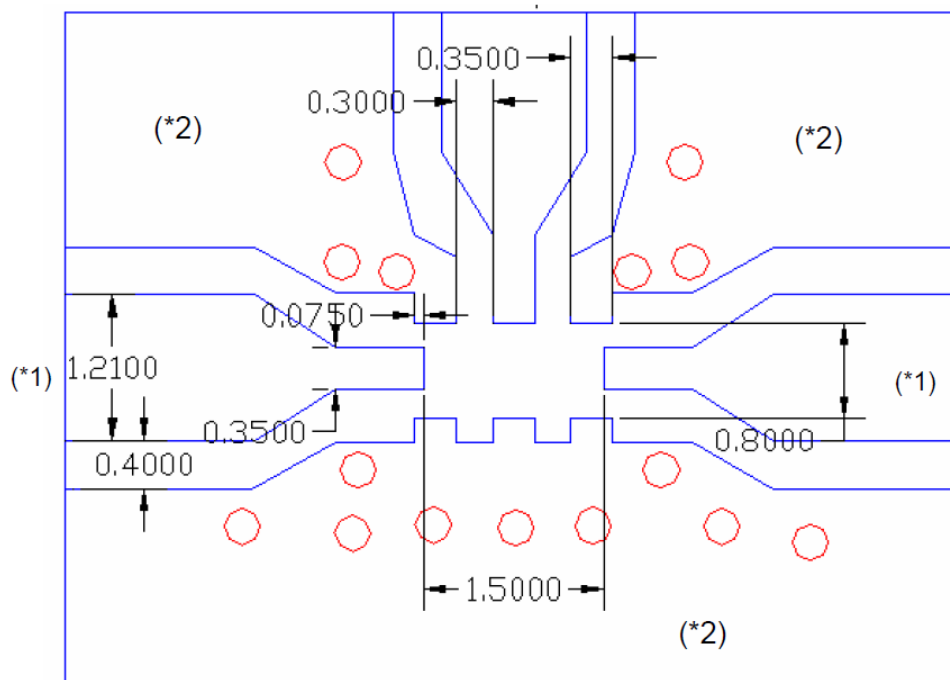


Table 3 Termination configuration

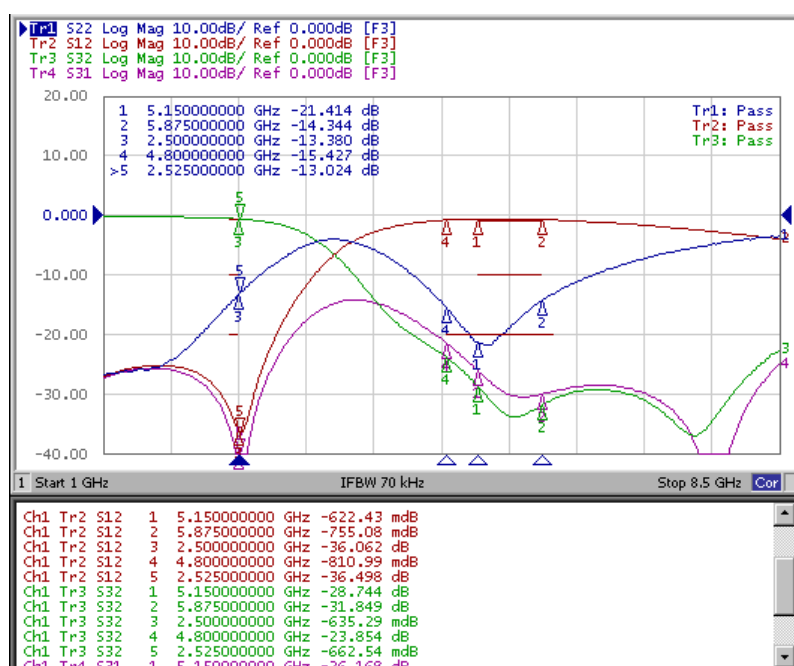
TERMINAL NAME	FUNCTION
P1	Ground Terminal
P2	Common Port
P3	Ground Terminal
P4	High Band Port
P5	Ground Terminal
P6	Ground Terminal
P7	Ground Terminal
P8	Low Band Port





**Fig. 2** Reference design of evaluation board

## ELECTRICAL PERFORMANCES



**Fig. 3** Frequency Characteristics

- Measured on Agilent E5071b 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)

# REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Feb. 18, 2013	-	- New data sheet for Diplexer, 2.45/5 GHz application, 2012 series