# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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

Dip le x e r DPX20121189R2455A 2.4 and 5 GHz 2012 Series



# YAGEO Phícomp

Product Specification – February 1, 2013 V.0



## YAGEO Phicomp

WIRELESS COMPONENTS

Dip le xe r

#### 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 89 R 2455A (1) (2) (3) (4) (5) (6)

#### (I) PRODUCT

DPX = Diplexer

#### (2) SIZE

 $2012 = 2.0 \times 1.2$ 

#### (3) MATERIALS

Material Code LL

#### (4) TYPE

89= Type 89

#### (5) PACKING STYLE

R = Tape and Reel

#### (6) WORKING FREQUENCY

2455 = 2.4/5GHz

#### PHYCOMP CTC

CFL4111714892524K

#### 12NC

411171489252



## YAGEO Phicomp

WIRELESS COMPONENTS

Dip le xe r

#### SPECIFICATION

Table I		
DESCRIPTION		VALUE
Pass Band	2400-2500 MHz	4900~5950 MHz
Insertion Loss	0.5dB(Max)	0.65dB(Max)
V.S.W.R	2.0 (Max)	2.0 (Max)
Return-Loss	10.0 dB (Min)	10.0 dB (Min)
Attenuation	20.0dB min.@4.8~5.0GHz 20.0dB min.@7.2~7.5GHz	20.0dB min.@0.824~0.915GHz 20.0dB min.@1.8~2.5GHz 10.0dB Ref.@9.8~11.9GHz
Isolation	20 dB (Min)	20 dB (Min)
Operating Temperature	-40~85 °C	-40~85 <b>°C</b>

# DIMENSIONS

Table 2	Machinical Dimension		
	DIMENSION		
L (mm)	2.00 ±0.15		
W (mm)	1.25 ±0.15		
T (mm)	0.50 ±0.10		
PI (mm)	0.40 ±0.15		
P2 (mm)	0.40 ±0.15		
P3 (mm)	0.40 ±0.15		
P4 (mm)	0.40 ±0.15		
P5 (mm)	0.40 ±0.15		
P6 (mm)	0.40 ±0.15		
DI (mm)	0.15 ±0.10		
D2 (mm)	0.25 ±0.10		
D3 (mm)	0.20 ±0.10		

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OUTLINE	S

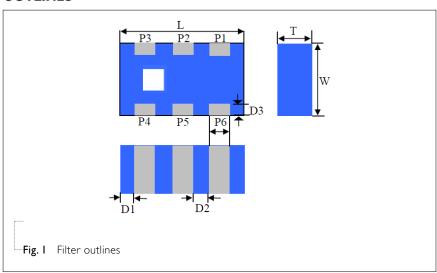
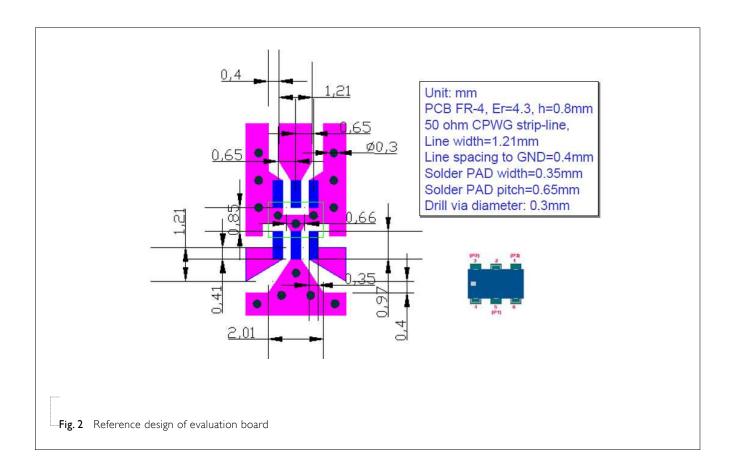


Table 3 Termination configuration					
TERMINAL NAME	FUNCTION				
PI	High Band Port				
P2	Ground Terminal				
P3	Low Band Port				
P4	Ground Terminal				
P5	Common Port				
P6	Ground Terminal				

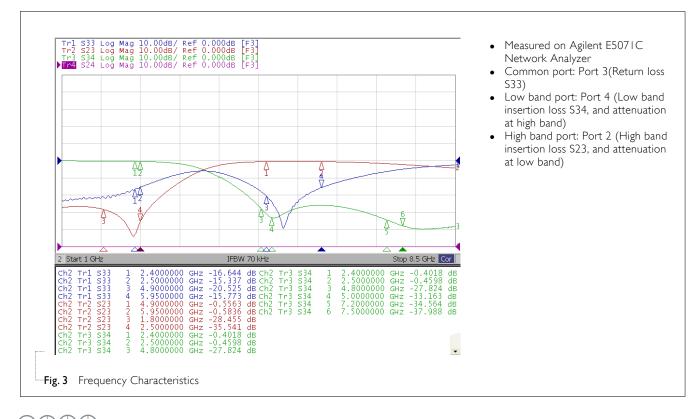
### YAGEO Phícomp

WIRELESS COMPONENTS

Dip le xe r



#### ELECTRICAL PERFORMANCES



YAGEC	Phicom	р		Product specificatio:	n <b>5</b>
	WIRELESS	S COM PONENTS	Dip le xe r		5
<u>revision</u>	<u>HISTORY</u>				
REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION		
Version 0	Feb. 01, 2013	-	- New data sheet fo 2012 series	or Diplexer, 2.45/5 GHz application,	