



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



DATA SHEET

WIRELESS COMPONENTS

Combo

BLF2012IM37R2400A

2.4 – 2.5 GHz

2012 Series



FEATURES

- Compact size design
- RoHS compliant

APPLICATIONS

- WLAN, 802.11a/b/g/n
- Bluetooth
- 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

BLF 2012 LM 37 R 2400A
(1) (2) (3) (4) (5) (6)

(1) PRODUCT

BLF = Combo

(2) SIZE

2012 = 2.0 × 1.2 mm

(3) MATERIALS

Material Code LM

(4) ANTENNA TYPE

37 = Type 37

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

2400 = 2.4GHz

PHYCOMP CTC

CBA4711514372454K

I2NC

471151437245

SPECIFICATION

Table 1

DESCRIPTION	VALUE
Pass Band	2400-2500 MHz
Unbalanced Impedance	50Ω
Balanced Impedance	Conjugate match to CSR BC04/05/06 series
Unbalanced port V.S.W.R.	2.0 (Max.)
Balanced port V.S.W.R.	2.0 (Max.)
Insertion Loss	2.5dB (Typ.) at 25 °C 2.8 dB (Max.) at 25 °C 3.5dB (Max.) at -25 ~ 85 °C
Ripple	0.6 dB (Max.)
Amplitude Balance	1.5 dB (Max) at 25 °C 1.8 dB (Max) at -40 ~ 85 °C
Phase Differential	180 ± 10 degree at 25 °C 180 ± 15 degree at -25 ~ 85 °C
Attenuation	35dB(Min) @880~960MHz 30dB(Min) @1710~1880MHz 20dB(Min) @1880~1990MHz 30dB(Min) @4800~5000MHz
DC Working Voltage	0 ~ 25 Volt

DIMENSIONS

Table 2 Machinal Dimension

	DIMENSION
L (mm)	2.00 ±0.15
W (mm)	1.25±0.15
T (mm)	0.80 ±0.15
P1 (mm)	0.40±0.15
P2 (mm)	0.40±0.15
P3 (mm)	0.40±0.15
P4 (mm)	0.50 ±0.15
P5 (mm)	0.40±0.15
P6 (mm)	0.40±0.15
P7 (mm)	0.40±0.15
P8 (mm)	0.50 ±0.15
D1 (mm)	0.20 ±0.15
D2 (mm)	0.35 ±0.15
D3 (mm)	0.30 ±0.15

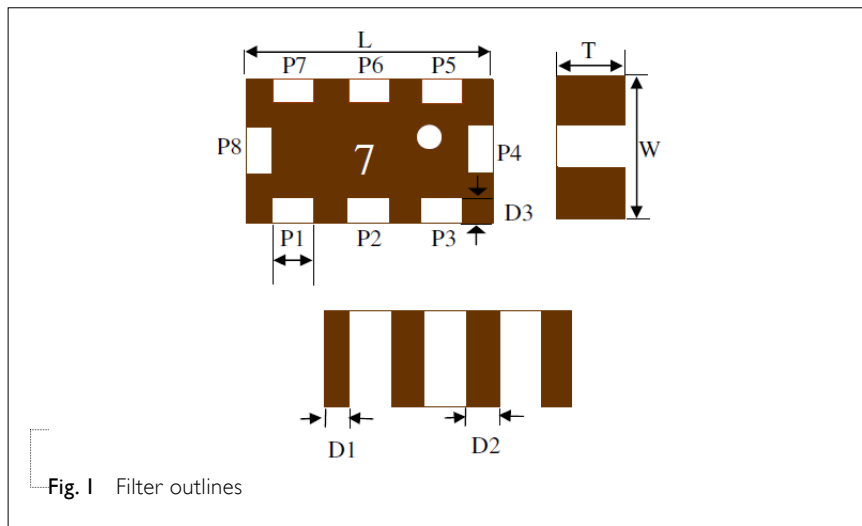
OUTLINES

Table 3 Termination configuration

TERMINAL NAME	FUNCTION	TERMINAL NAME	FUNCTION
P1	Balanced	P5	Unbalanced
P2	Ground Terminal	P6	DC
P3	Balanced	P7	Not Connect
P4	Ground Terminal	P8	Ground Terminal

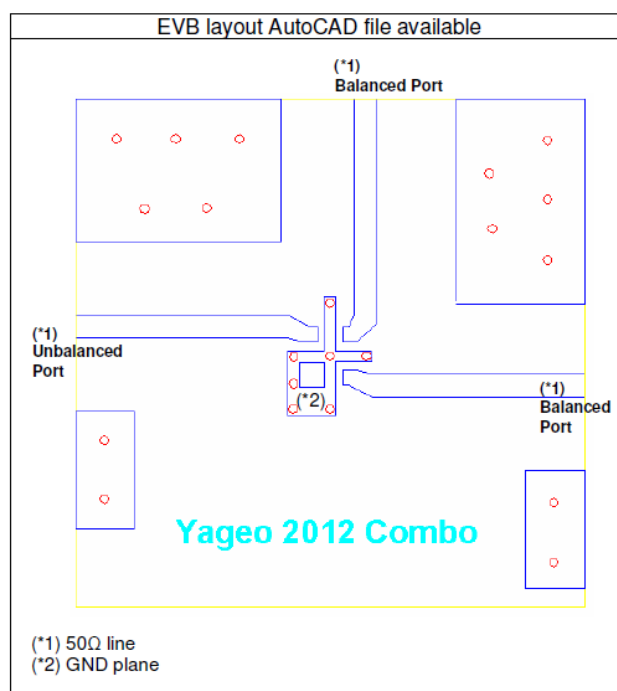
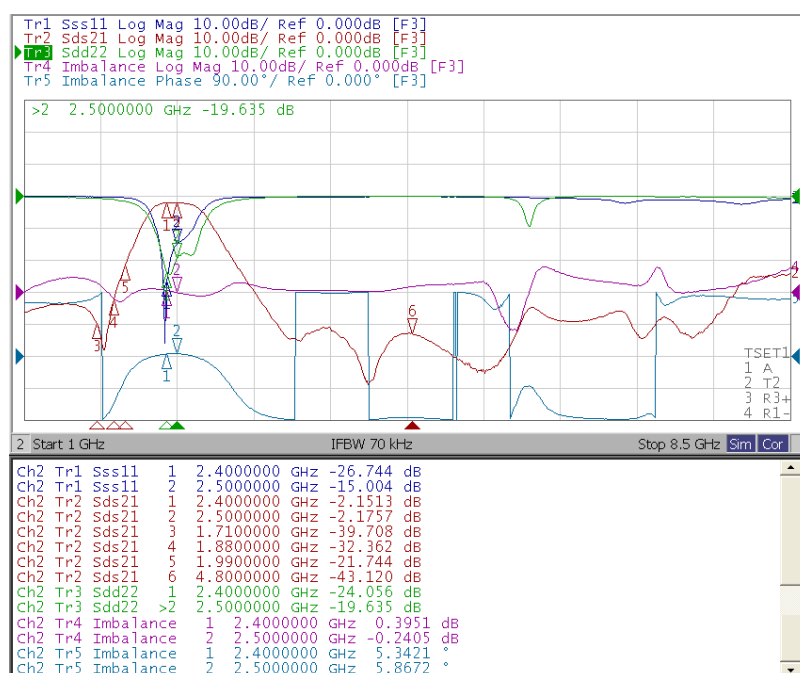


Fig. 2 Reference design of evaluation board

ELECTRICAL PERFORMANCES



- Unbalanced port return loss (Sss11, single-ended port return loss)
- Balanced port return loss (Sdd22, differential port return loss)
- Insertion loss (Sds21, differential port to single-ended port)
- Imbalance of amplitude (S21/S31, amplitude difference)
- Imbalance of phase (S21/S31, phase difference)

Fig. 3 Frequency Characteristics

REVISION HISTORY

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