

DATA SHEET

WIRELESS COMPONENTS
Combo

BLF2012LM37R2400A
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

CBA471151437245K

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

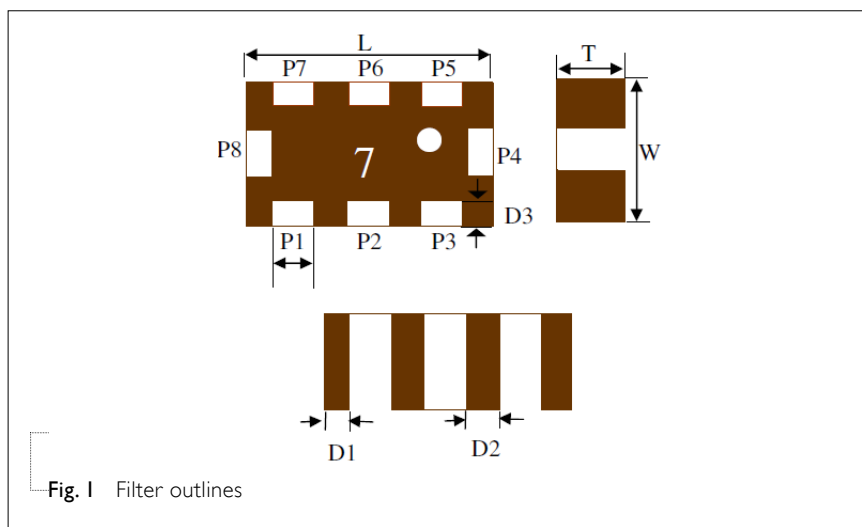
OUTLINES

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

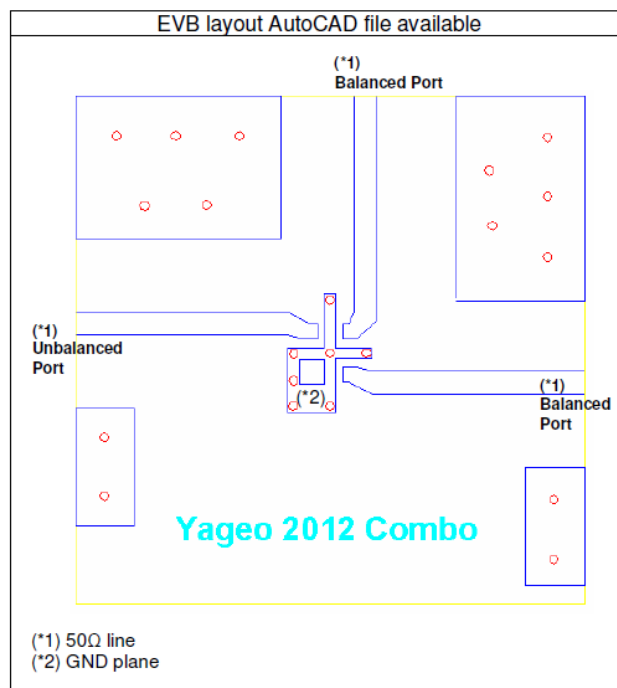


Fig. 2 Reference design of evaluation board

ELECTRICAL PERFORMANCES

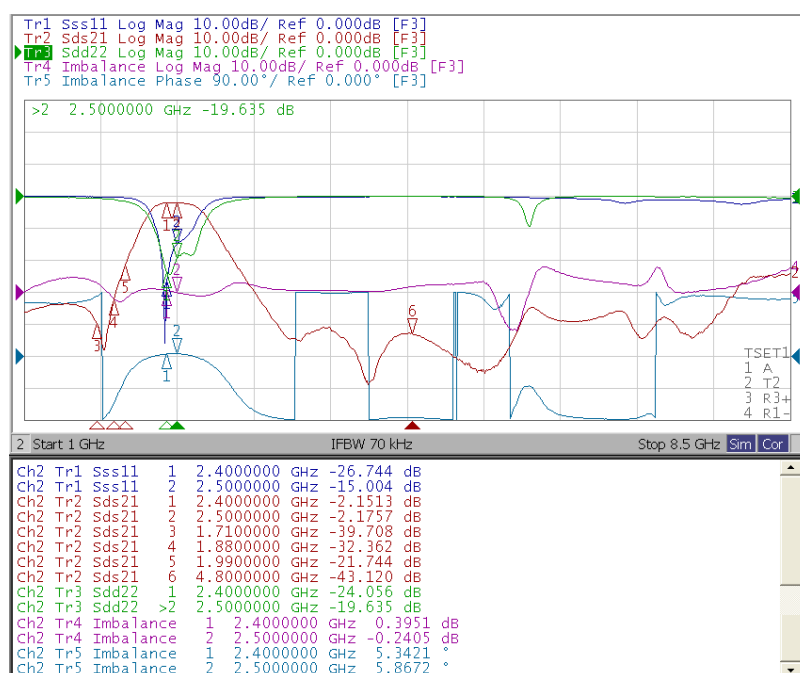


Fig. 3 Frequency Characteristics

- 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)

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
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Version 0	Feb. 18, 2013	-	- New data sheet for Combo, 2.45GHz application, 2012 series
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AMEYA360

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