

DATA SHEET

WIRELESS COMPONENTS

Balun

BLN1608LL01R2400A

2.4 – 2.5GHz

I608 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

BLN 1608 LL 01 R 2400A
 (1) (2) (3) (4) (5) (6)

(1) PRODUCT

BLN = Balun

(2) SIZE

1608 = 1.6 × 0.8

(3) MATERIALS

Material Code LL

(4) ANTENNA TYPE

01 = Type 01

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

2400 = 2.4GHz

PHYCOMP CTC

CBA4711715012454K

I2NC

471171501245

SPECIFICATION

Table 1

DESCRIPTION	VALUE
Pass Band	2400~2500 MHz
Unbalanced Impedance	50 Ω
Balanced Impedance	100 Ω
Unbalanced port V.S.W.R. (Return Loss)	2.0 (Max) 10dB (Min)
Insertion Loss	1.1 dB (Max) at 25 °C 1.4 dB (Max) at -25 ~ 85 °C
Phase Difference	180 ±10 degree
Amplitude Difference	2 dB (Max)

DIMENSIONS

Table 2 Machinical Dimension

	DIMENSION
L (mm)	1.60 ±0.15
W (mm)	0.80 ±0.15
T (mm)	0.65 ±0.15
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
D1 (mm)	0.10 ±0.05
D2 (mm)	0.55 ±0.15
D3 (mm)	0.25 ±0.15
D4 (mm)	0.20 ±0.15

OUTLINES

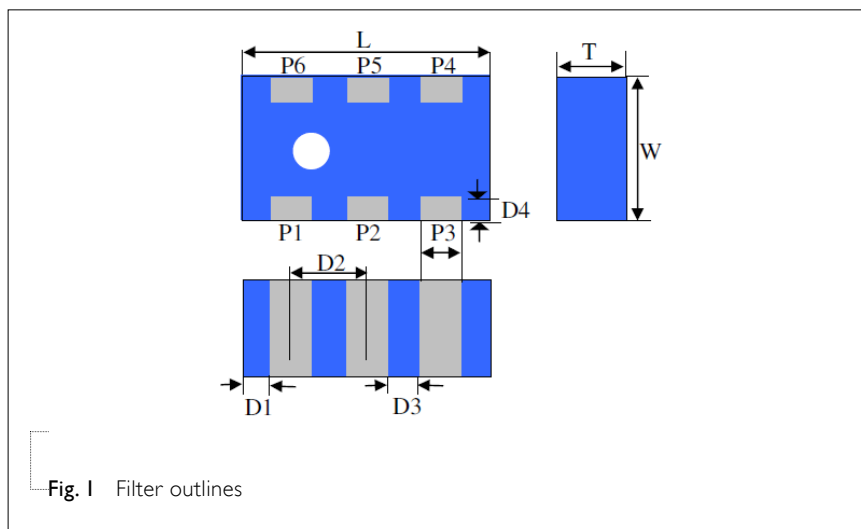


Table 3 Termination configuration

TERMINAL NAME	FUNCTION
P1	Unbal. Port
P2	Ground
P3	Balanced Port
P4	Balanced Port
P5	Ground
P6	Not Connect

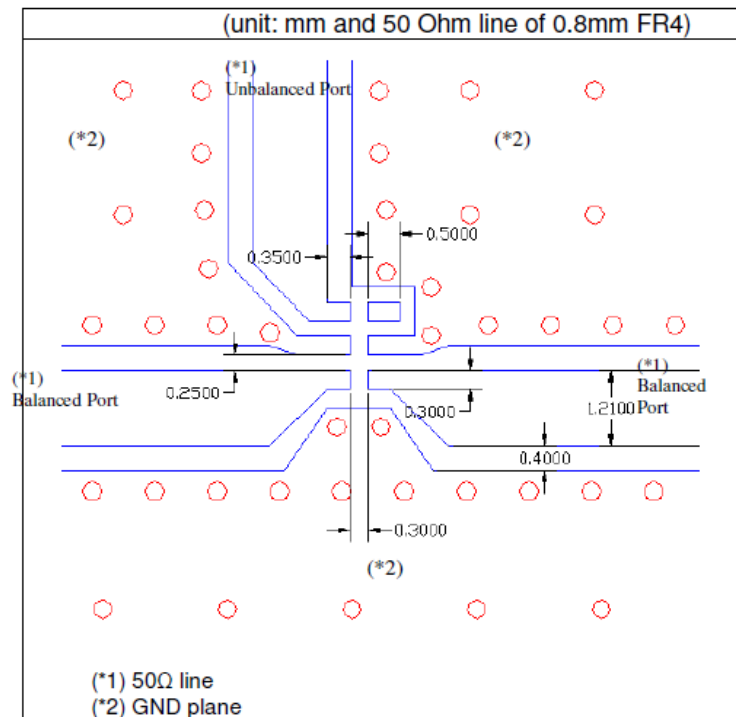
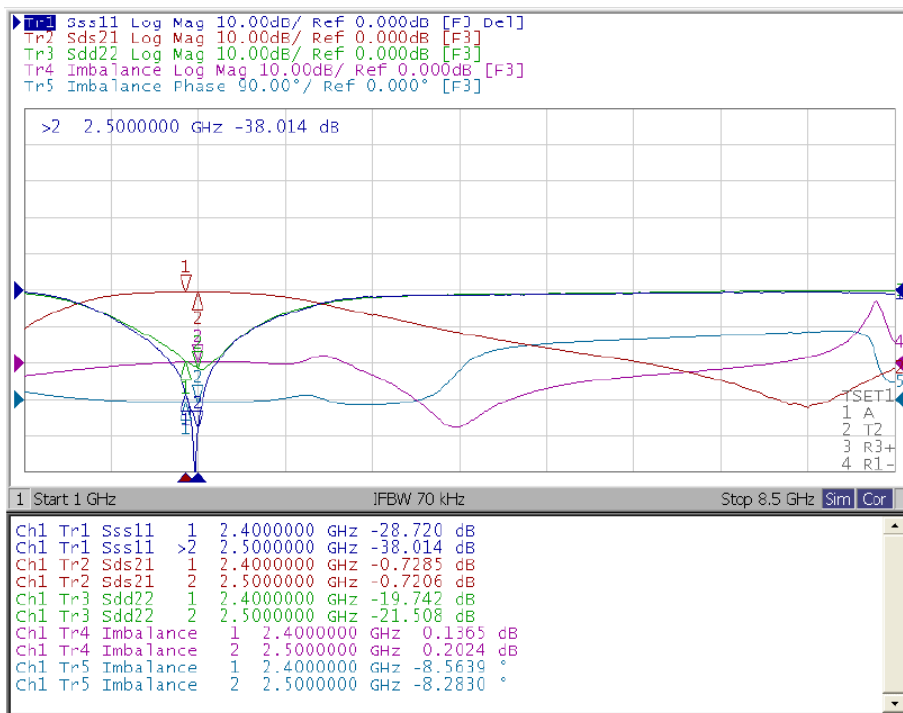


Fig. 2 Reference design of evaluation board

ELECTRICAL PERFORMERS



- Unbalanced port return loss (Sss11)
- Balanced port return loss (Sdd22)
- Insertion loss (Sds21, differential port to single-ended port)
- Imbalance (S21/S31 amplitude and phase difference)
- Measured on Agilent E5071C Network Analyzer

Fig. 3 Frequency Characteristics

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Feb. 08, 2013	-	- New data sheet for Balun, 2.45 GHz application, 1608 series

Mouser Electronics

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