

# DATA SHEET

## WIRELESS COMPONENTS

Balun

BLN1608LL01R5000A

5GHZ

1608 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**

**BLN 1608 LL 01 R 5000A**  
 (1) (2) (3) (4) (5) (6)

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**(1) PRODUCT**

BLN = Balun

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**(2) SIZE**

1608 = 1.6 × 0.8

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**(3) MATERIALS**

Material Code LL

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**(4) TYPE**

01 = Type 01

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**(5) PACKING STYLE**

R = Tape and Reel

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**(6) WORKING FREQUENCY**

5000 = 5 GHz

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**PHYCOMP CTC**

CBA4711715015004K

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**I2NC**

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471171501500

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**SPECIFICATION**

Table 1

DESCRIPTION	VALUE
Pass Band	4900~5950 MHz
Unbalanced Impedance	50 Ω
Balanced Impedance	100 Ω
Unbalanced port V.S.W.R. (Return Loss)	2.0 (Max) 10dB (Min)
Insertion Loss	1.2 dB (Max) at 25 °C 1.5 dB (Max) at -40 ~ 85 °C
Phase Difference	180 ±10 degree
Amplitude Difference	1.5 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**

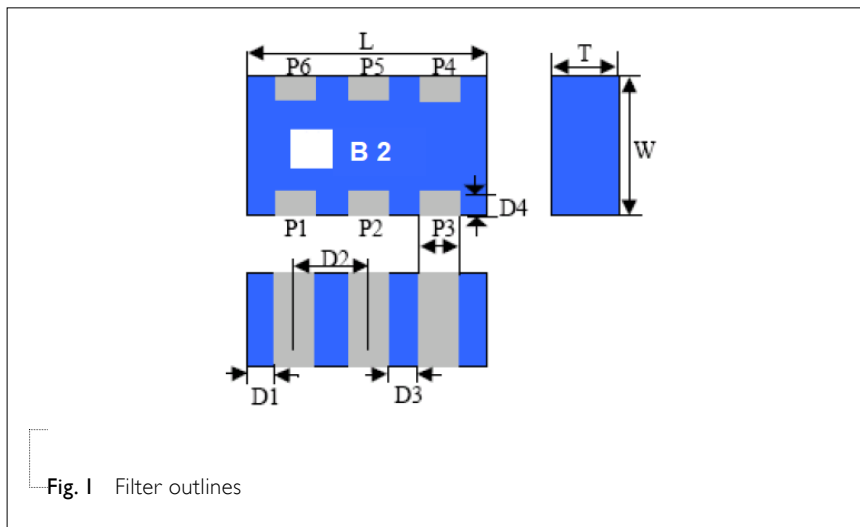


Table 3 Termination configuration

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

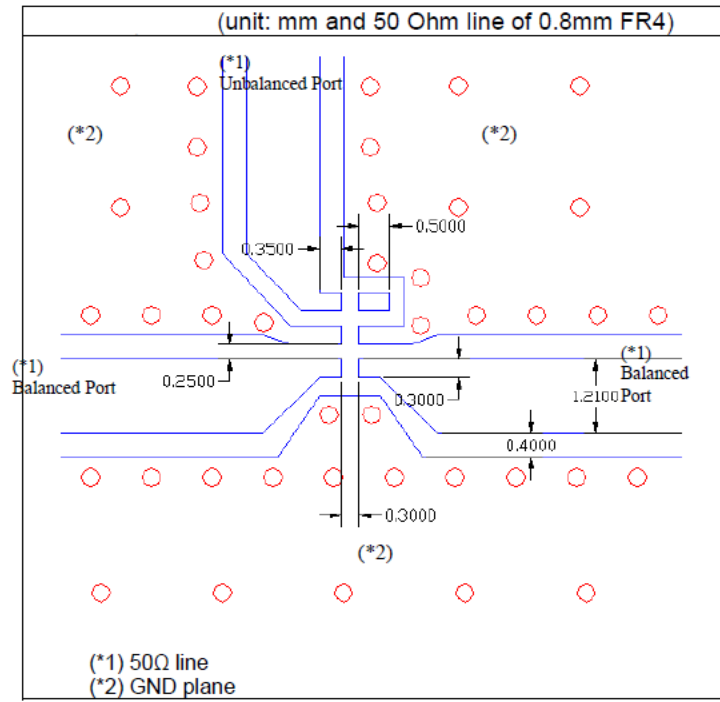
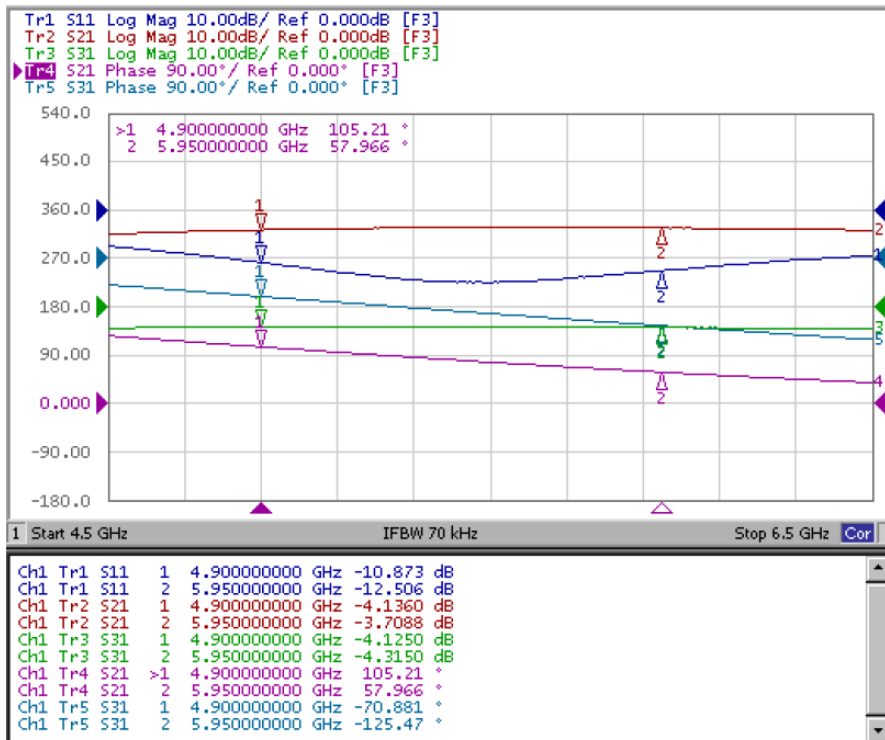


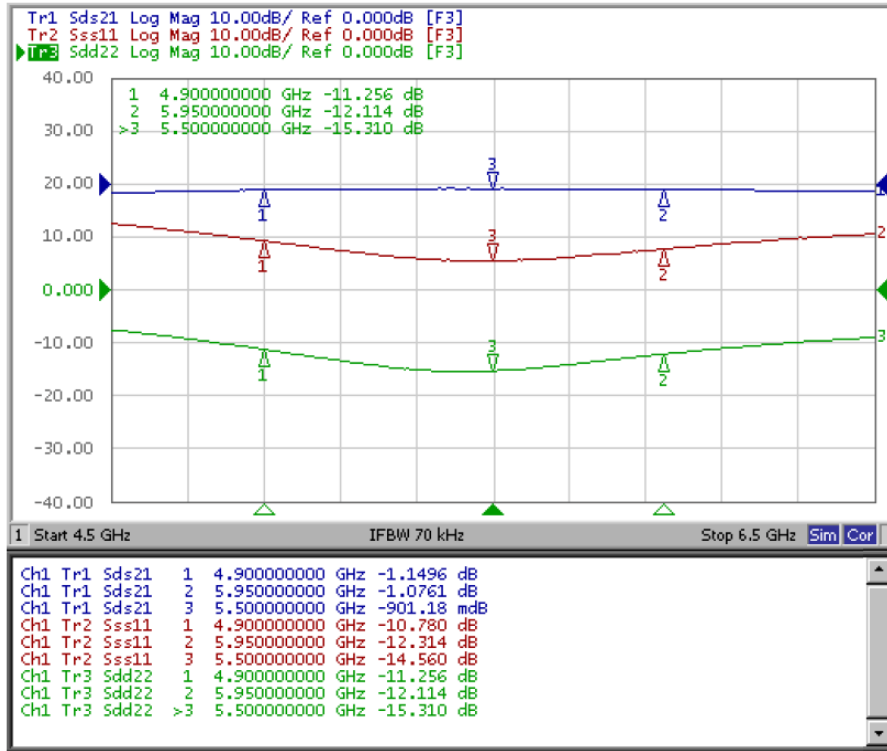
Fig. 2 Reference design of evaluation board

**ELECTRICAL PERFORMANCES**

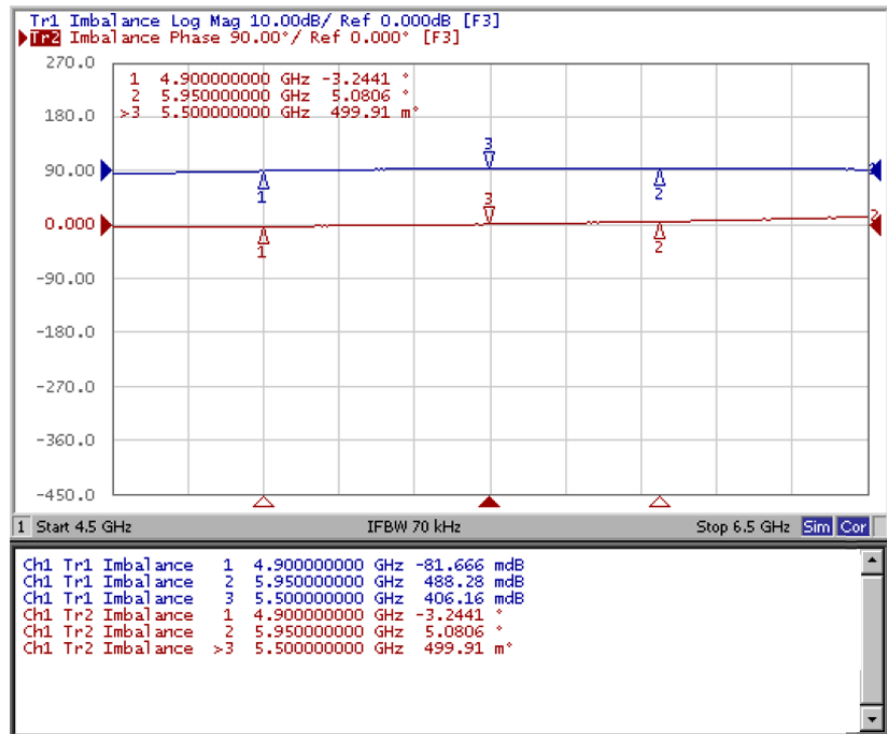


- S11, S21, S31 Measured on Agilent E5071b Network Analyzer

**ELECTRICAL PERFORMANCES**



- Insertion loss (Sds21, differential port to single-ended port)
- Unbalanced port return loss (Sss11, single-ended port)
- Balanced port return loss (Sdd22, differential port)
- Measured on Agilent E5071b Network Analyzer



- Imbalance (S21/S31 amplitude and phase difference)
- Measured on Agilent E5071b Network Analyzer

Fig. 3 Frequency Characteristics

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Feb. 05, 2013	-	- New data sheet for Balun, 5 GHz application, 1608 series

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