

# DATA SHEET

## WIRELESS COMPONENTS

Balun

BLN1608LL01R5000A

5GHz

I608 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)

### (1) PRODUCT

BLN = Balun

### (2) SIZE

1608 = 1.6 × 0.8

### (3) MATERIALS

Material Code LL

### (4) TYPE

01 = Type 01

### (5) PACKING STYLE

R = Tape and Reel

### (6) WORKING FREQUENCY

5000 = 5 GHz

## PHYCOMP CTC

CBA4711715015004K

## I2NC

471171501500

**SPECIFICATION**

Table I

| DESCRIPTION                            | VALUE                                                |
|----------------------------------------|------------------------------------------------------|
| Pass Band                              | 4900~5950 MHz                                        |
| Unbalanced Impedance                   | 50 $\Omega$                                          |
| Balanced Impedance                     | 100 $\Omega$                                         |
| Unbalanced port V.S.W.R. (Return Loss) | 2.0 (Max)<br>10dB (Min)                              |
| Insertion Loss                         | 1.2 dB (Max) at 25 °C<br>1.5 dB (Max) at -40 ~ 85 °C |
| Phase Difference                       | 180 $\pm$ 10 degree                                  |
| Amplitude Difference                   | 1.5 dB (Max)                                         |

**DIMENSIONS**

Table 2 Machinical Dimension

|         | DIMENSION       |
|---------|-----------------|
| L (mm)  | 1.60 $\pm$ 0.15 |
| W (mm)  | 0.80 $\pm$ 0.15 |
| T (mm)  | 0.65 $\pm$ 0.15 |
| P1 (mm) | 0.30 $\pm$ 0.15 |
| P2 (mm) | 0.30 $\pm$ 0.15 |
| P3 (mm) | 0.30 $\pm$ 0.15 |
| P4 (mm) | 0.30 $\pm$ 0.15 |
| P5 (mm) | 0.30 $\pm$ 0.15 |
| P6 (mm) | 0.30 $\pm$ 0.15 |
| D1 (mm) | 0.10 $\pm$ 0.05 |
| D2 (mm) | 0.55 $\pm$ 0.15 |
| D3 (mm) | 0.25 $\pm$ 0.15 |
| D4 (mm) | 0.20 $\pm$ 0.15 |

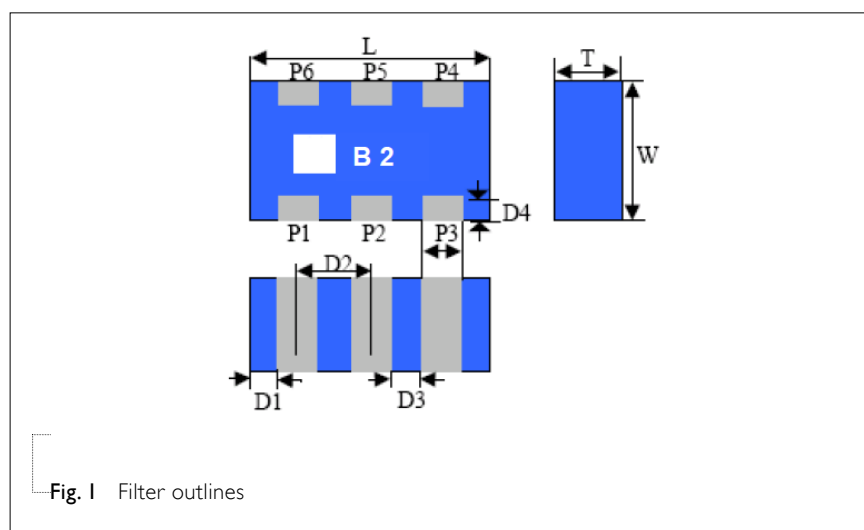
**OUTLINES**

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     |

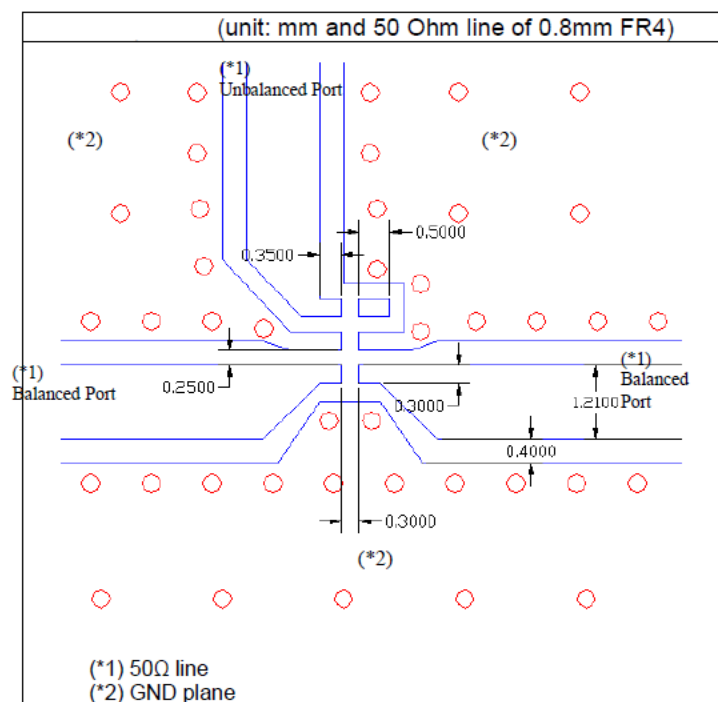
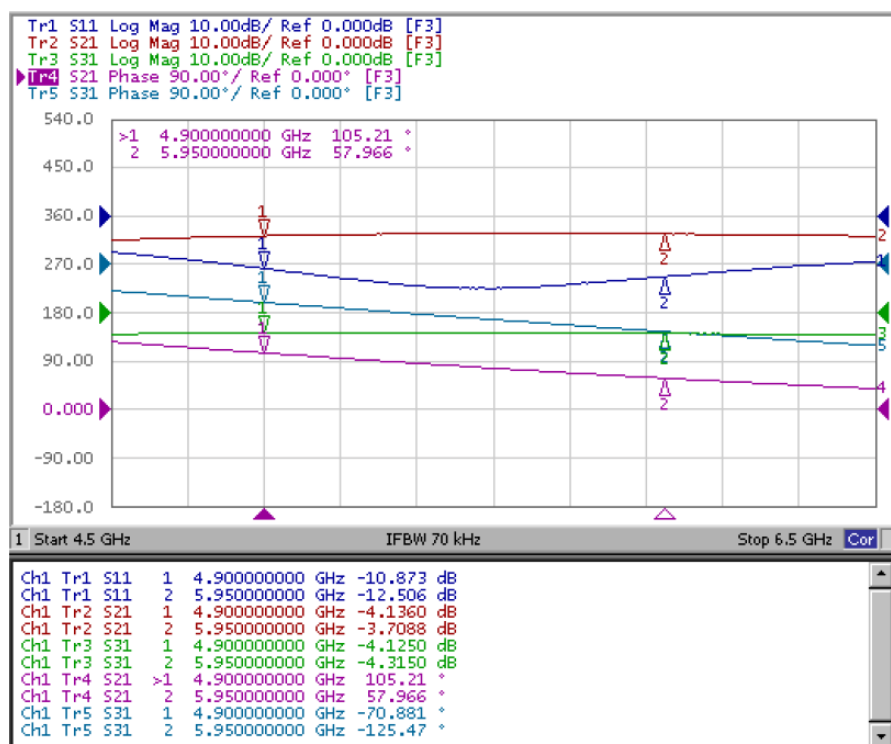


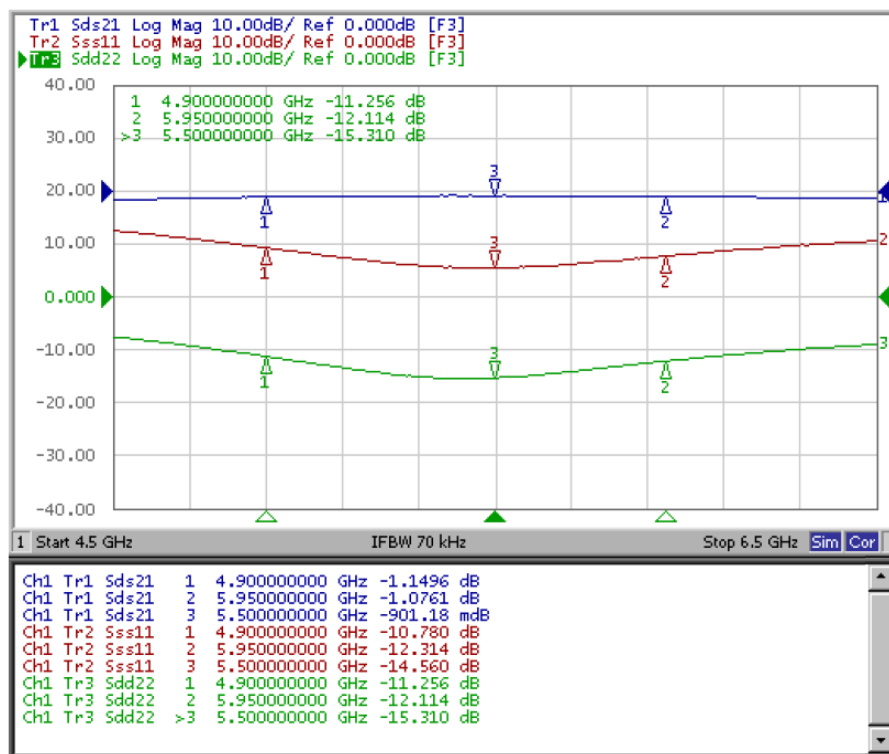
Fig. 2 Reference design of evaluation board

## ELECTRICAL PERFORMANCES

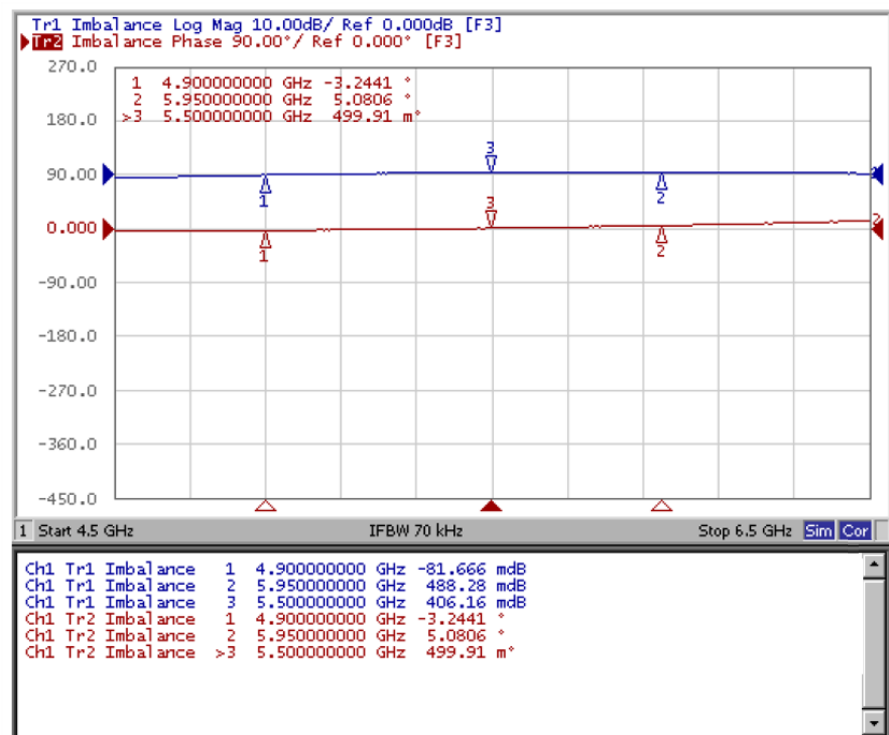


- S11, S21, S31 Measured on Agilent E5071b Network Analyzer

## 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, I 608 series |

# AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit [www.ameya360.com](http://www.ameya360.com)

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

➤ Sales :

Direct      +86 (21) 6401-6692  
Email        amall@ameya360.com  
QQ           800077892  
Skype        ameyasales1 ameyasales2

➤ Customer Service :

Email        service@ameya360.com

➤ Partnership :

Tel           +86 (21) 64016692-8333  
Email        mkt@ameya360.com