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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!



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# DATA SHEET

WIRELESS COMPONENTS

BALUN

BLNI608LL00R2400A

2.4 – 2.5 GHz

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 00 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) TYPE**

00 = Type00

**(5) PACKING STYLE**

R = Tape and Reel

**(6) WORKING FREQUENCY**

2400 = 2.4GHz

**PHYCOMP CTC**

CBA4711715002454K

**I2NC**

471171500245

## SPECIFICATION

Table 1

DESCRIPTION	VALUE
Pass Band	2400~2500 MHz
Unbalanced Impedance	50 $\Omega$
Balanced Impedance	50 $\Omega$
Unbalanced port V.S.W.R. (Return Loss)	2.0 (Max) 10dB (Min)
Insertion Loss	1.2 dB (Max) at 25 $^{\circ}\text{C}$ 1.5 dB (Max) at -25 ~ 85 $^{\circ}\text{C}$
Phase Difference	180 $\pm$ 10 degree
Amplitude Difference	1 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

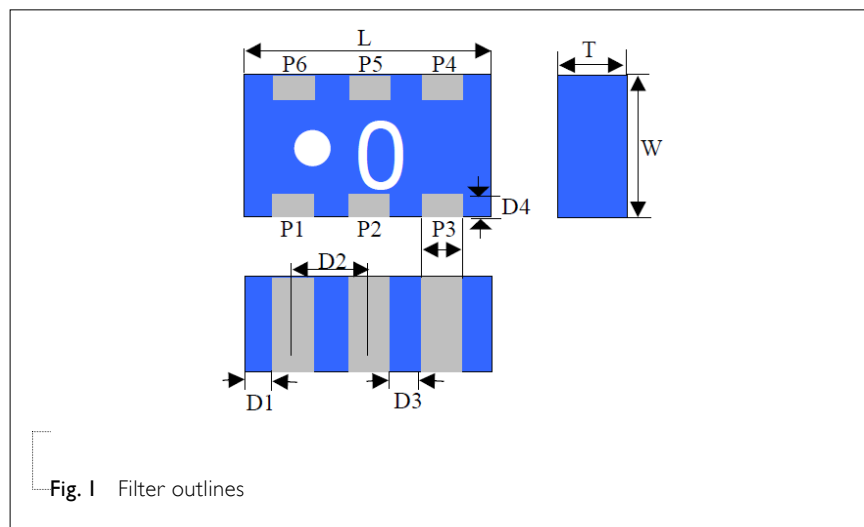
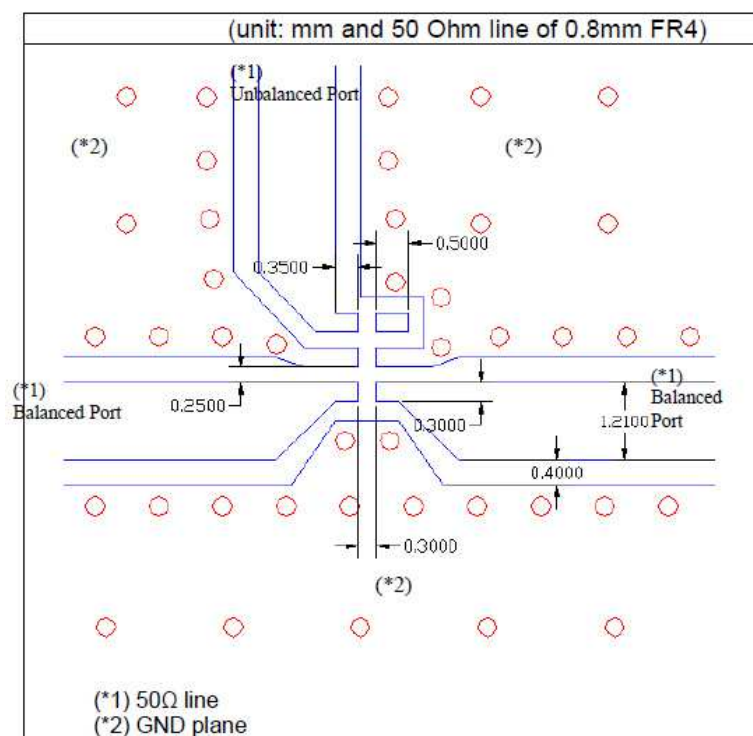


Table 3 Termination configuration

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





**Fig. 2** Reference design of evaluation board

## ELECTRICAL PERFORMANCES

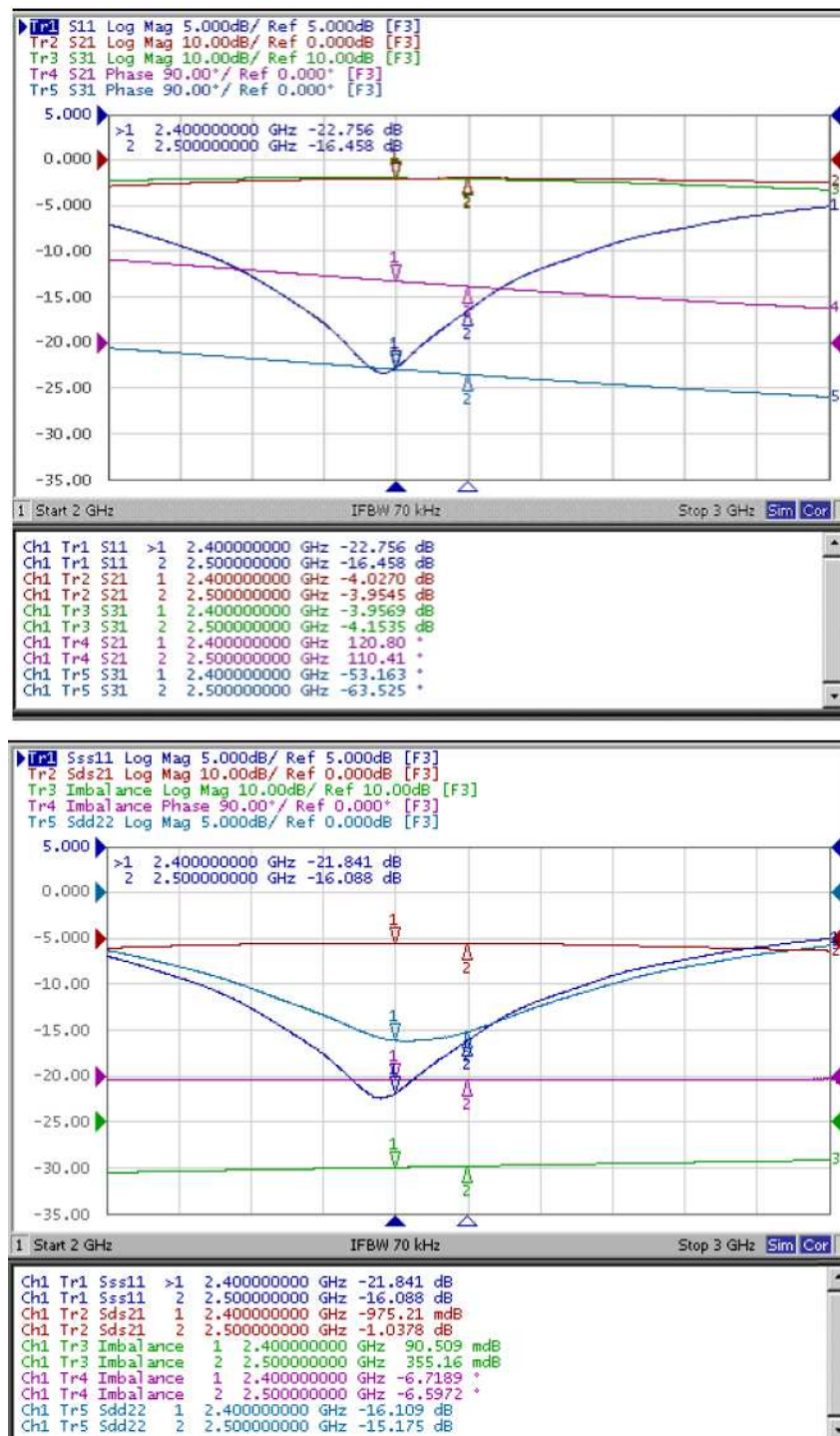


Fig. 3 Frequency Characteristics

- Unbalanced port return loss (Ss11)
- Balanced port return loss (Sdd22)
- Insertion loss (Sds21, differential port to single-ended port)
- Imbalance (S21/S31 amplitude and phase difference)
- Measured on Agilent E5071A Network Analyzer

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Feb. 08, 2013	-	- New data sheet for Balun, 2.45 GHz application, I608 series