

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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

Ba lun

BIN1608IL01R5000A

5GHZ 1608 **S**eries



YAGEO Phicomp



Ba lun

FEATURES

- Compact size design
- RoHS compliant

<u>APPLICATIONS</u>

- 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)

(I) PRODUCT

BLN = Balun

(2) SIZE

 $1608 = 1.6 \times 0.8$

(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

12NC

471171501500



$\frac{\text{Product spec ific ation}}{6}$

<u>SPECIFICATION</u>

Table I

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)
	IOdB (Min)
Insertion Loss	I.2 dB (Max) at 25 °C
	I.5 dB (Max) at -40 \sim 85 $^{\circ}$ 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
PI (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
DI (mm)	0.10 ±0.05
D2 (mm)	0.55 ±0.15
D3 (mm)	0.25 ±0.15
D4 (mm)	0.20 ±0.15

OUTLINES

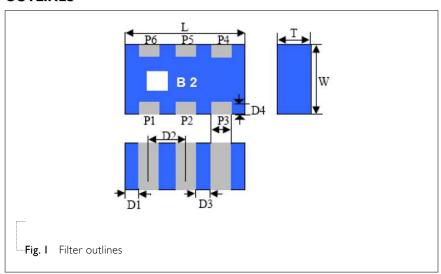
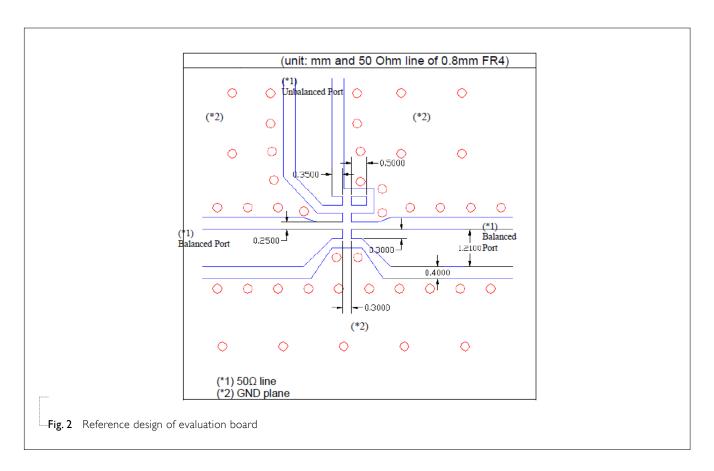


Table 3 Termination configuration

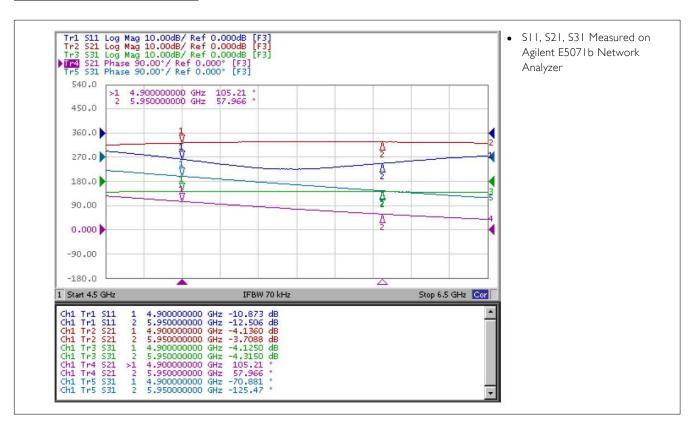
TERMINAL NAME	FUNCTION
PI	Unbal. Port
P2	Ground Terminal
P3	Balanced Port
P4	Balanced Port
P5	Ground Terminal
P6	Not Connect



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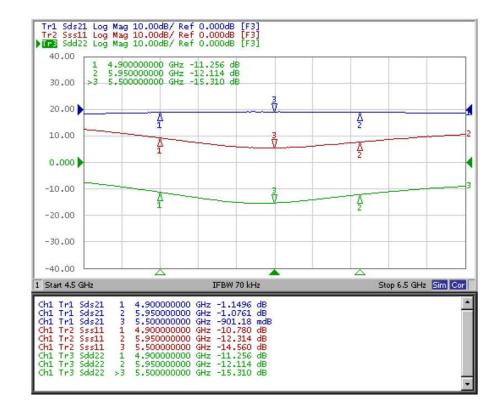
ELECTRICAL PERFORMANCES



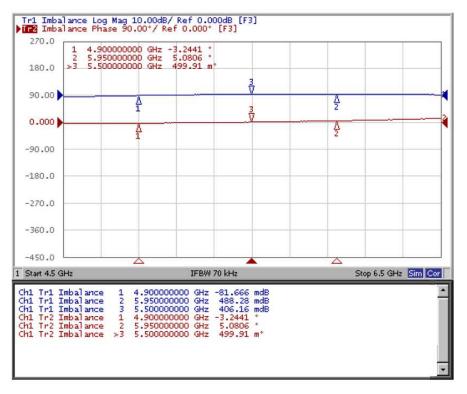


ELECTRICAL PERFORMANCES

YAGEO Phicomp



- Insertion loss (Sds21, differential port to single-ended port)
- Unbalanced port return loss (Sss I I, 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





Product specification

6

6

WIRELESS COMPONENTS

Ba lun

REVISION HISTORY

REVISION DATE CHANGE NOTIFICATION DESCRIPTION

Version 0 Feb. 05, 2013 -

- New data sheet for Balun, 5 GHz application, 1608 series

