

**Description: 1608 5GHz Balun**
**PART NUMBER: BLN1608LL01R5000A**
**Features:**

- Compact size : 1.6x0.8x0.65mm
- RoHS compliant

**Applications:**

- WLAN, 802.11a/b/g/n
- ISM Band

**ELECTRICAL SPECIFICATIONS**

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

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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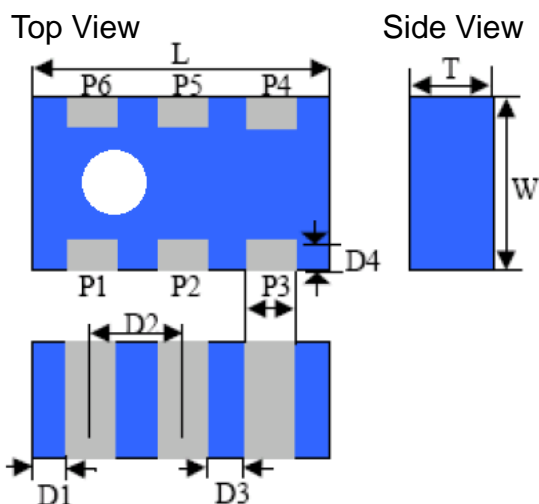
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### MECHANICAL DIMENSION

#### Outline



#### Termination

Terminal name	function
P1	Unbal. Port
P2	GND
P3	Balanced Port
P4	Balanced Port
P5	GND
P6	Not Connect

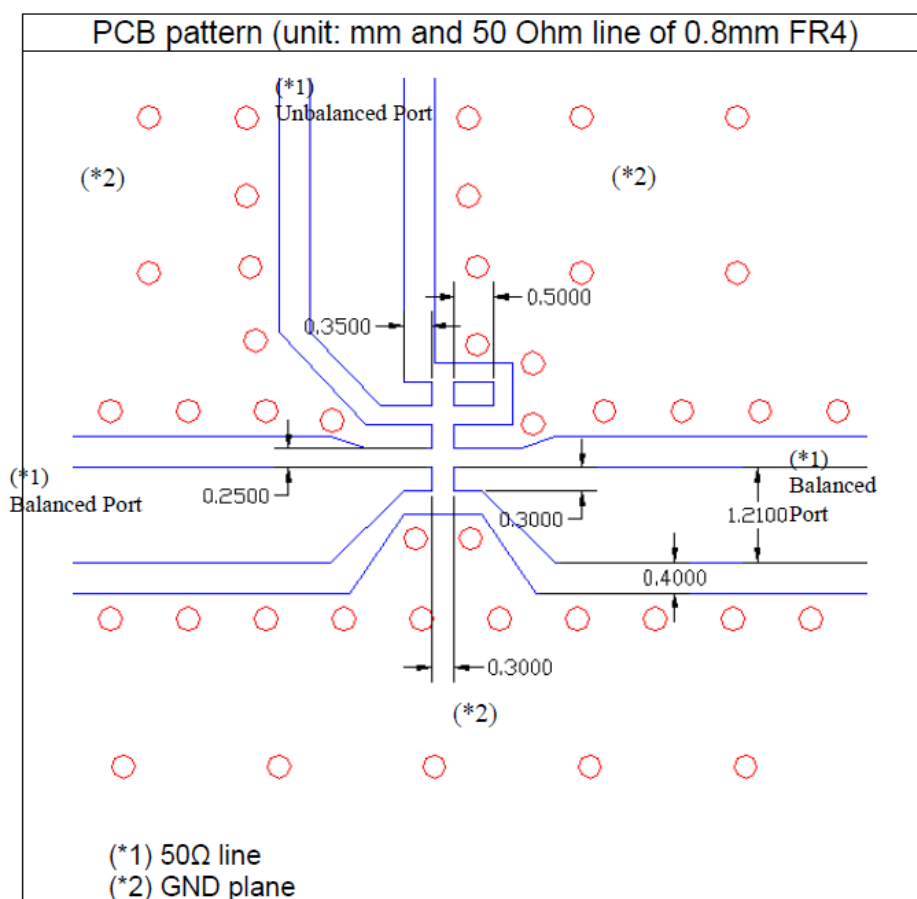
#### Mechanical

	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

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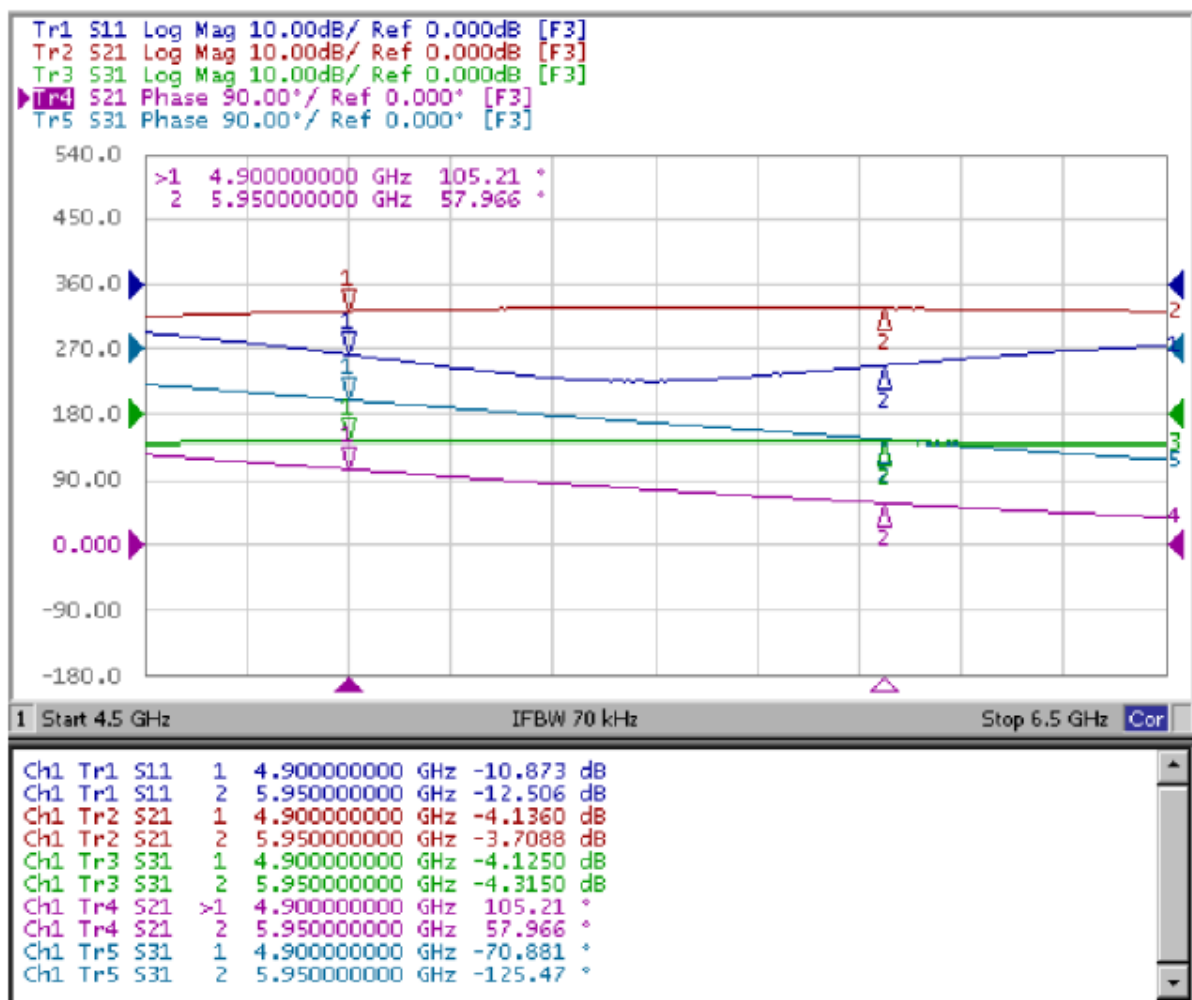
### Reference design of EVB



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### ELECTRICAL PERFORMANCES



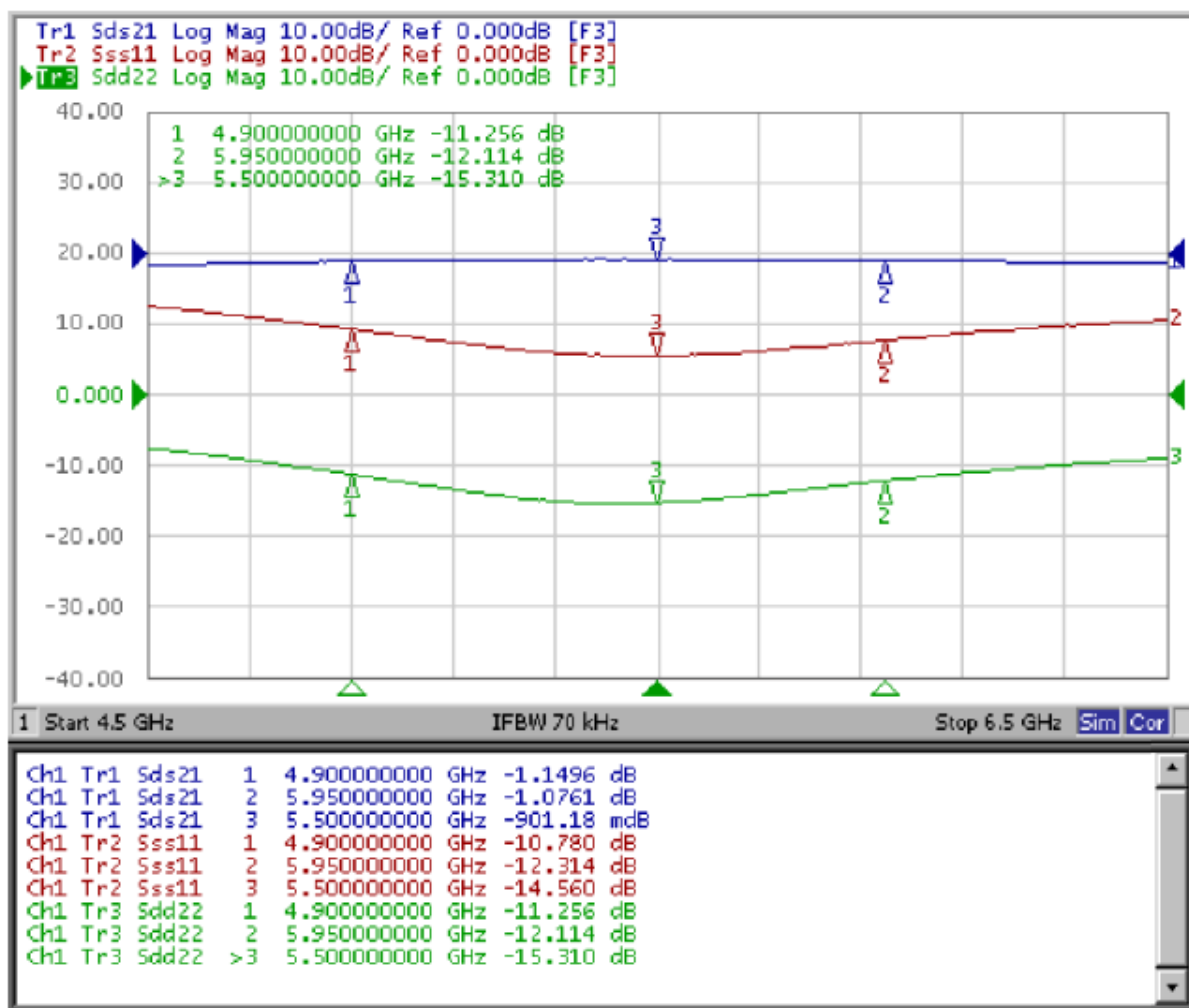
- S11, S21, S31 Measured on Agilent E5071b Network Analyzer

Frequency Characteristics

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### ELECTRICAL PERFORMANCES



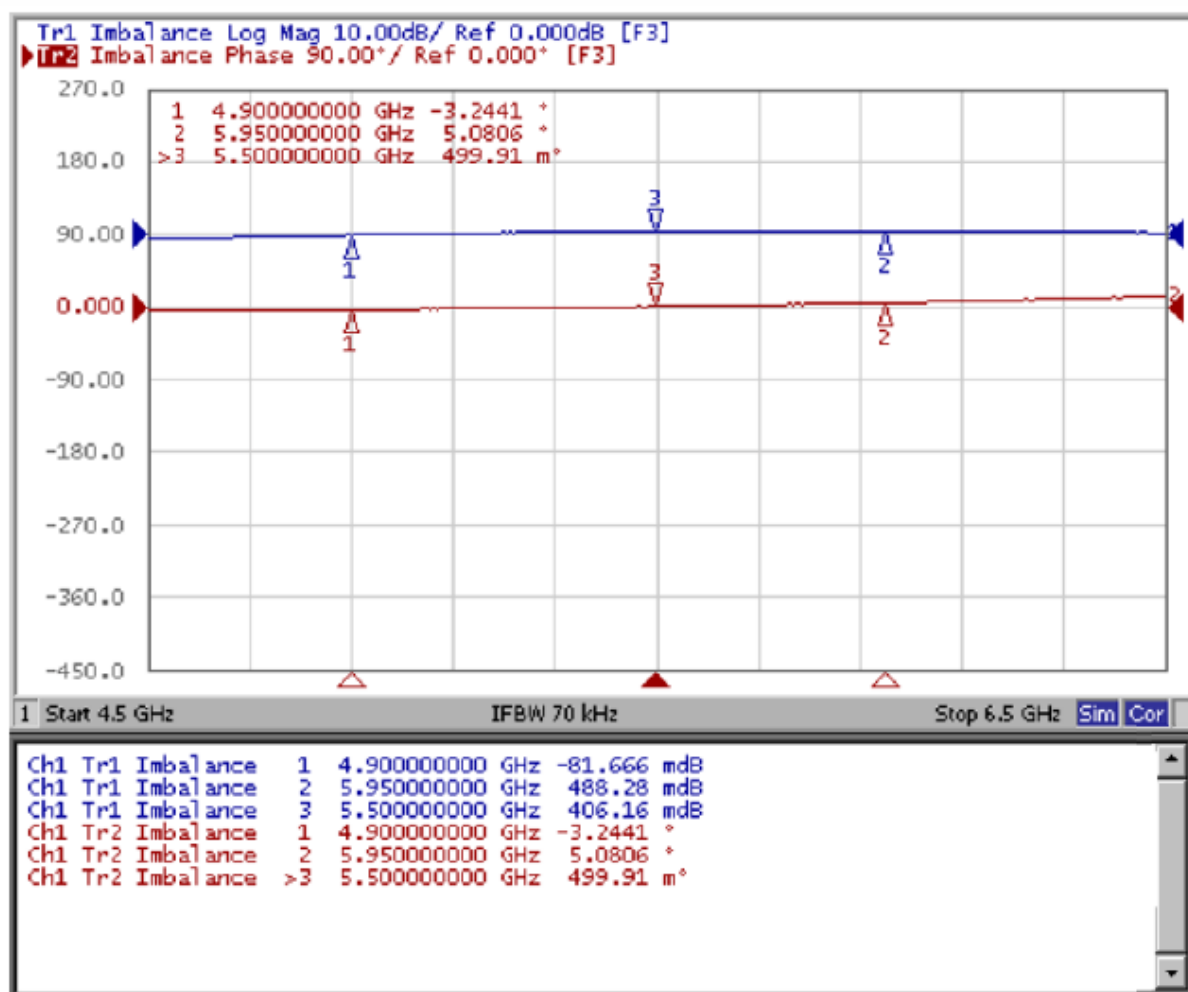
- Insertion loss (Sds21, differential port to single-ended port)
- Unbalanced port return loss (Sss11, single-ended port)
- Balanced port return loss (Sdd22, differential port)
- Measured on Agilent E5071b Network Analyzer

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### ELECTRICAL PERFORMANCES



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

Frequency Characteristics

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## REVISION HISTORY

Revision	Date	Description
Version 1	June. 01, 2021	- New issue for Pulse version

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