Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 0605 2.3-2.7GHz Balun

PART NUMBER: BLN0605LL39R2500A

Features:

- Compact size : 0.65x0.50x0.35mm
- RoHS compliant

Applications:

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

ELECTRICAL SPECIFICATIONS

DESCRIPTION	Value
Pass Band	2300~2690 MHz
Unbalanced Impedance	50Ω
balanced Impedance	100Ω
Insertion Loss	0.6 dB (Max.) at 25°C
V.S.W.R / Return Loss	2.0(Max) / 10 dB (Min.)
Phase Difference	180 ±10 degree
Amplitude Difference	2.0 dB (Max)
Operating Temperature	-40 ~ +85℃

RoHS COMPLIANT

Pulse Worldwide Headquarters
15255 Innovation Drive #100
San Diego, CA 92128
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Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
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Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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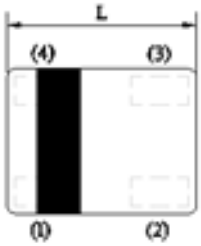
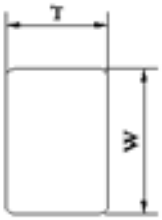
MECHANICAL DIMENSION

Outline

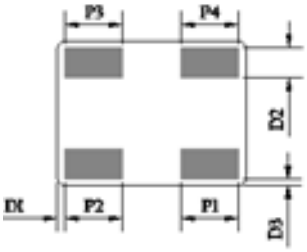
Top View



Side View



Bottom View



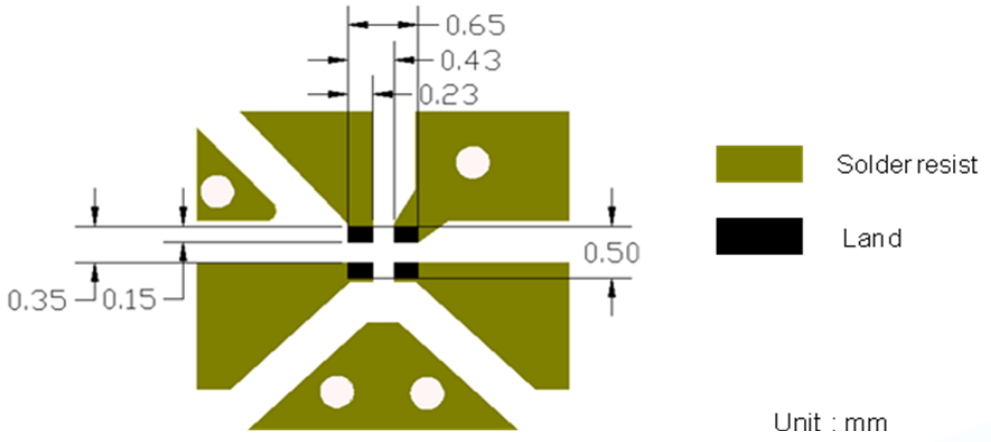
Termination

Terminal name	function
P1	GND
P2	Unbal.
P3	Balanced
P4	Balanced

Mechanical

	Dimension
L (mm)	0.65 ±0.10
W (mm)	0.50 ±0.10
T (mm)	0.35 ±0.10
P1 (mm)	0.20 ±0.05
P2 (mm)	0.20±0.05
P3 (mm)	0.20±0.05
P4 (mm)	0.20±0.05
D1 (mm)	0.025±0.025
D2 (mm)	0.025±0.025
D3 (mm)	0.10 ±0.10

Reference design of EVB



Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

RoHS COMPLIANT

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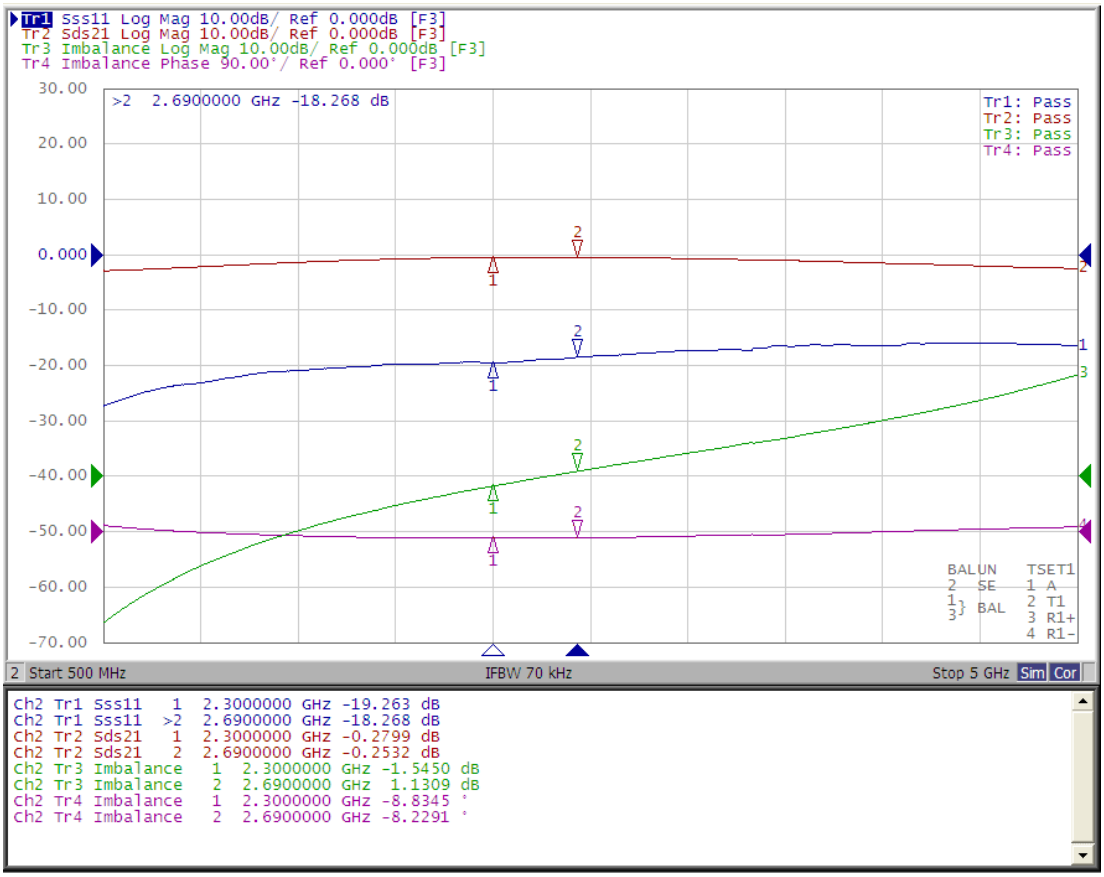
ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C Network Analyzer
- Unbalanced port return loss (Sss11)
- Balanced port return loss (Sdd22)
  Insertion loss (Sds21, differential port to single-ended port) and
  Imbalance (S21/S31 amplitude and phase difference)

Frequency Characteristics

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REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 17, 2020	- New issue