Pulse LARSEN Antennas

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 ℃

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



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For more information:

Pulse Worldwide Headquarters 15255 Innovation Drive #100 San Diego, CA 92128 USA Tel:1-858-674-8100 Pulse/Larsen Antennas 18110 SE 34th St Bldg 2 Suite 250 Vancouver, WA 98683 USA Tel: 1-360-944-7551 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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TECHNICAL DATA SHEET

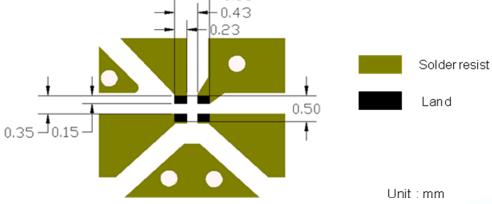
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MECHANICAL DIMENSION

Outline Mechanical Termination Top View Side View **Terminal name** function Dimension τ L (mm) 0.65 ± 0.10 (4) P1 GND (3) W (mm) 0.50 ±0.10 P2 Unbal. T (mm) 0.35 ±0.10 ≥ P3 P1 (mm) Balanced 0.20 ±0.05 P4 P2 (mm) 0.20 ± 0.05 **Balanced** 00 (2) P3 (mm) 0.20 ± 0.05 P4 (mm) 0.20 ± 0.05 Bottom View D1 (mm) 0.025 ± 0.025 D2 (mm) 0.025 ± 0.025 D3 (mm) 0.10 ±0.10





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

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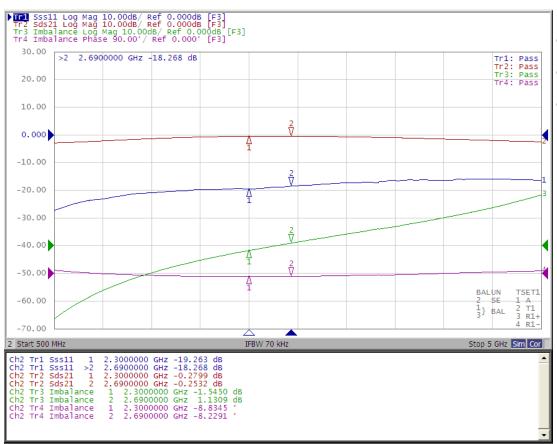
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ELECTRICAL PERFORMANCES



- 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

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