Pulse LARSEN Antennas

TECHNICAL DATA SHEET

Description: 0605 1.8-2.0GHz Balun

PART NUMBER: BLN0605LL19R1880A

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	1805~1990 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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TECHNICAL DATA SHEET

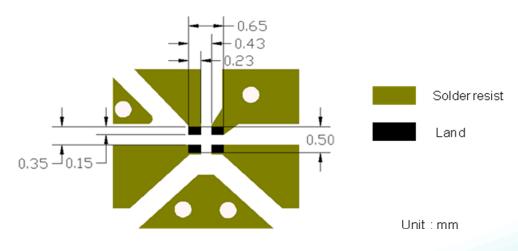
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MECHANICAL DIMENSION

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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ELECTRICAL PERFORMANCES TT2 SSS11 Log Mag 10.00dB/ Ref 0.000dB [F3] TT2 SdS21 Log Mag 10.00dB/ Ref 0.000dB [F3] TT3 Imbalance Log Mag 10.00dB/ Ref 0.000dB Tr4 Imbalance Phase 90.00'/ Ref 0.000' [F3] [F3] 30.00 >1 1.8050000 GHz -18.539 dB Tr1: Pass Tr2: Pass Tr3: Pass Tr4: Pass 20.00 10.00 0.000 -10.00 1 -20.00 -30.00 -40.00 -50.00 BALUN TSET1 A T1 R1 -60.00 SE 133 BAL 23 R1 -70.00 2 Start 500 MHz IFBW 70 kHz Stop 3.5 GHz Sim Cor 1.8050000 GHZ -18.539 dB 1.9900000 GHZ -19.092 dB 1.8050000 GHZ -0.4076 dB 1.9900000 GHZ -0.4476 dB 1 1.8050000 GHZ -0.1234 2 1.9900000 GHZ -1.8988 1 1.8050000 GHZ -942.08 2 1.9900000 GHZ -1.4234 Tr1 Tr1 5ss11 5ss11 >1 2 1 2 Tr2 SdS21 1 Tr2 SdS21 2 Tr3 Imbalance Tr3 Imbalance :h2 -h2 ch2 ch2 dB ch2 ch2 Tr4 Tmbalance m Tr4 Imbalance Hold Stop ExtRe

 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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