LTCC RF Balun Transformer EBL2875-18B100

REV: 0

Features



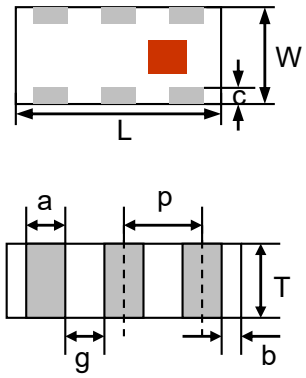
- Multilayer LTCC Technology
- RF Input Power: 1 W (CW) at 25℃
- Operating Temperature: - 40℃~+125℃
- Storage Temperature: - 55℃~+125℃
- New circuit topology for excellent return loss and low insertion loss

Application

- Application to GSM、TDMA、PDC、WAN、
- Aapplication to TACS、AMPS、NAMPS navigation.

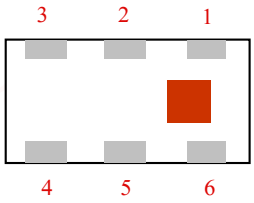
Dimensions (Unit:inch/mm)

	Inch	mm
L	0.063 ± 0.004	1.60 ± 0.10
W	0.031 ± 0.004	0.80 ± 0.10
T	0.024 ± 0.004	0.60 ± 0.10
a	0.008 ± 0.004	0.20 ± 0.10
b	0.008 ± 0.004	0.20 ± 0.10
c	0.006 ± 0.004	0.15 ± 0.10
g	0.012 ± 0.004	0.30 ± 0.10
p	0.020 ± 0.002	0.50 ± 0.05



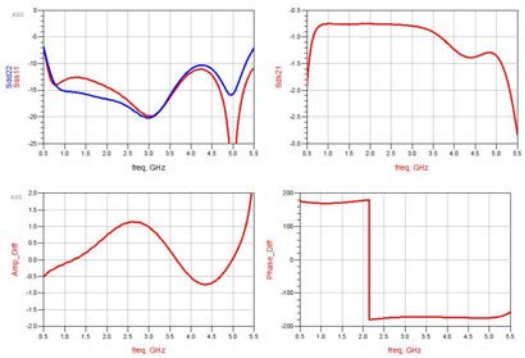
Pin Connections

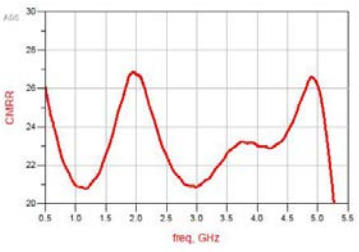
1	Unbalanced Port (IN)
2	GND or DC feed + RF GND
3	Balanced Port (OUT1)
4	Balanced Port (OUT2)
5	GND
6	NC



Performance Parameter

Frequency Range	599 MHz ~ 5150 MHz
Insertion Loss	≤1.9dB @ 599~699MHz ≤1.6dB @ 699~2700MHz ≤1.9dB @ 2700~2800MHz ≤2.0dB @ 2800~5150MHz
Amplitude Ripple（any 400MHz）	≤1.0dB @ 599~2800MHz ≤1.0dB @ 2800~5150MHz
Unbalanced Impedance	50 Ω
Balanced Impedance	100Ω (50 Ω+50 Ω)
Unbalanced Port SWR	≤2.0 @ 599~5150MHz
Balanced Port SWR	≤2.0 @ 599~5150MHz
Amplitude Impedance	±1.3dB @ 599~2800MHz ±1.3dB @ 2800~5150MHz
Phase Impedance	180±11 Deg@ 599~1000MHz 180±12 Deg@ 1000~1500MHz 180±11 Deg@ 1500~3200MHz 180±12 Deg@ 3200~4200MHz 180±11 Deg@ 4200~5150MHz
Phase Differential Deviation（any200M）	≤6 Deg
Rated Power	1W
CMRR	≥20dB





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