BD0919N08054T BALUN SPECIFICATION

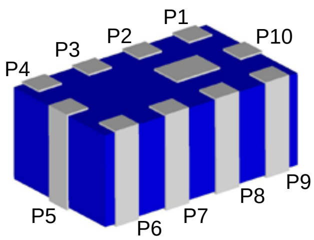
PRODUCT FEATURES

1. Surface mount dual ceramic balun with a small size of 2.00 x 1.20 x 0.90 mm (0805 size).
2. Low insertion loss and inband amplitude/phase imbalance.
3. Out of band suppression and highly stable under temperature and humidity changes.
4. Superior performance in a compact size, RoHS compliant.

RF CHARACTERISTICS

P/N BD0919N08054T	Low Band Spec	High Band Spec
Frequency range (MHz)	869~960	1805~1990
Insertion Loss (dB)	1.1 max @ 25°C 1.3 max @ -40 to +85°C	1.6 max @ 25°C 1.8 max @ -40 to +85°C
VSWR	2 Max	2 Max
Impedance (Unbalanced)	50 Ω	50 Ω
Impedance (Balanced)	200 Ω	200 Ω
Phase Difference	180° ± 15°	180° ± 15°
Amplitude balance (dB)	2 Max	2 Max
Attenuation (dB min.)	10 dB @ 1738 - 1920MHz 20 dB @ 2400 - 2500MHz 20 dB @ 2607 - 2880MHz	15 dB @ 2400 - 2500MHz 15 dB @ 3610 - 3980MHz 20 dB @ 5415 - 5970MHz
Operation Temperature Range	-40°C - +85°C	

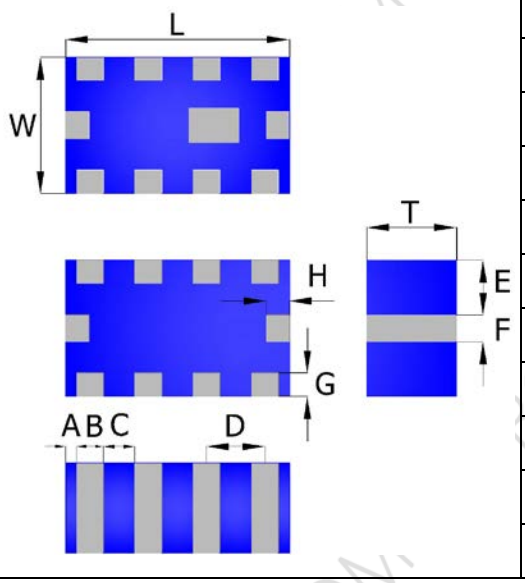
TERMINAL CONFIGURATION



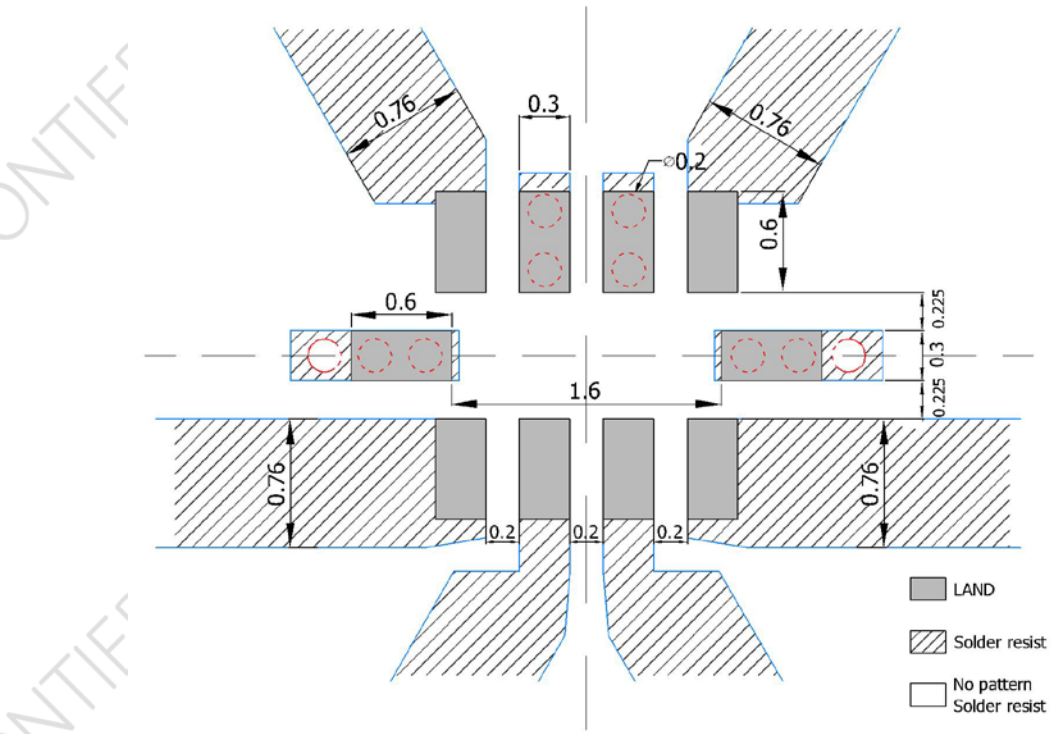
PIN	Connection	PIN	Connection
P1	Unbalanced Port _LB	**P6**	Balanced Port _HB
P2	GND	**P7**	Balanced Port _HB
P3	GND	**P8**	Balanced Port _LB
P4	Unbalanced Port _HB	**P9**	Balanced Port _LB
P5	GND	**P10**	GND

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PHYSICAL DIMENSIONS

Figure	Symbol	Dimension (mm)
	L	2.00 ± 0.10
	W	1.25 ± 0.10
	T	0.90 ± 0.10
	A	0.125 ± 0.10
	B	0.25 ± 0.10
	C	0.25 ± 0.10
	D	0.50 ± 0.10
	E	0.475 ± 0.10
	F	0.30 ± 0.10
	G	0.20 ± 0.10
	H	0.20 ± 0.10

PCB DESIGN/LAYOUT CONSIDERATION



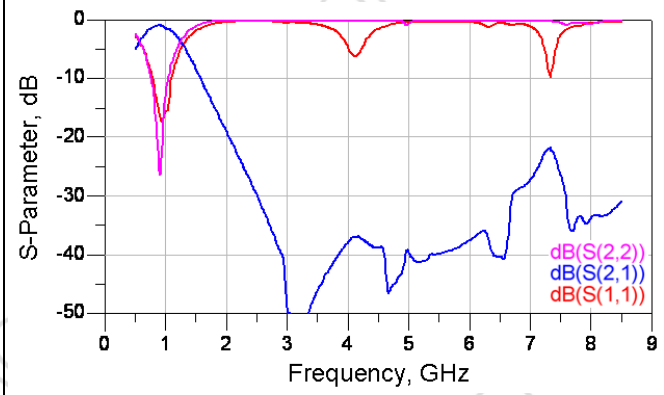
Unit : mm

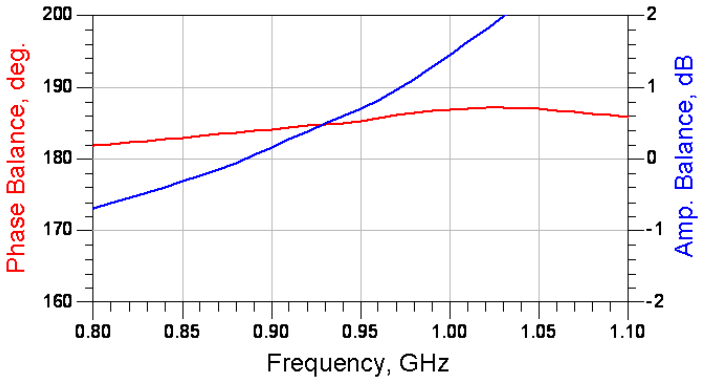
Trace impedance must be 50Ω. The trace width is a dependent of PCB material and its thickness.

TEST DATA

Typical RF Performance

Low Band：





High Band：

