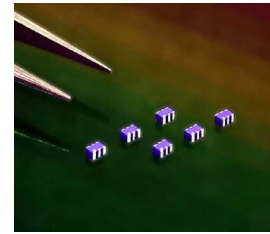


RF PRODUCT INFORMATION

RFBLN2012090A/T Series

Multi Layer Chip BALUN – 2012 (0805)
For ISM Band 2.4GHz Application

Patent Pending



FEATURES

1. LTCC (Low Temperature Cofired Ceramics) Technology
2. Miniatured Size 2.00 x 1.25 x 0.95 mm³
3. Low Insertion Loss reduces power consumption
4. Low inband Amplitude and Phase imbalance enable high performance wireless system operation.
5. Enable for DC Biasing of PA or Mixer
6. Special Balance/ Unbalance impedance is upon requested.

ELECTRICAL CHARACTERISTICS

RFBLN2012090AxT Series

Spec \ Part Number		A0T	A1T	A2T
Central Frequency		2450 ± 50 MHz		
Impedance	Unbalanced	50 Ω		
	Balanced	50 Ω	100 Ω	200 Ω
Return Loss		Min. 10 dB		
Inband Amplitude imbalance		Max. 2.0 dB		
Inband Phase imbalance		Max 180 ± 10 degree		
Insertion Loss		1.2 dB	1.0 dB	1.0 dB

APPLICATIONS

- 2.4GHz ISM band RF applications. Bluetooth, Wireless LAN
- Balance to Unbalance conversion.

DIMENSION

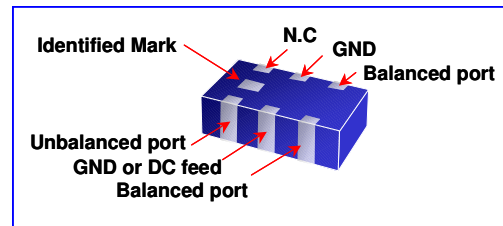
Figure	Symbol	Dimension
	L	2.00 ± 0.15 mm
	W	1.25 ± 0.15 mm
	T	0.95 ± 0.10 mm
	A	0.20 ± 0.20 mm
	B	0.30 ± 0.20 mm
	C	0.35 ± 0.20 mm
	D	0.65 ± 0.20 mm

SOLDER LAND PATTERN

Figure	Symbol	Dimension (mm)
	a	1.00 ± 0.10
	b	0.375 ± 0.10
	c	0.655 ± 0.10
	d	0.741 ± 0.10

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

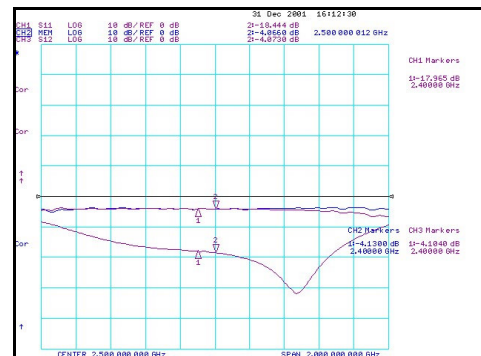
CONSTRUCTION



Outline of 2.4GHz BALUN (2012 size)

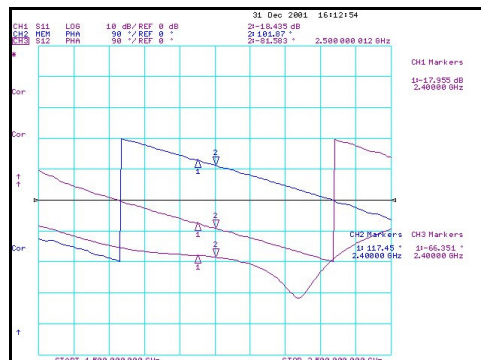
ELECTRICAL PERFORMANCE

(1). Amplitude balance (RFBLN2012090A1T)



Remark: -4.1dB which should include 0.4dB microstrip line loss

(2). Phase balance (RFBLN2012090A1T)



CONTACT INFORMATION

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Specification subject to change without prior notice.