



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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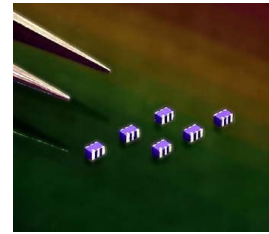


RF PRODUCT INFORMATION

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
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

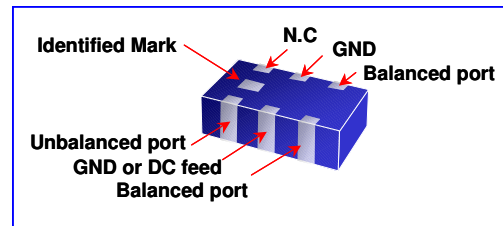
Figure	Symbol	Dimension
	L	2.00 ± 0.15 mm
	W	1.25 ± 0.15 mm
	T	0.95 ± 0.10 mm
	A	0.20 ± 0.20 mm
	B	0.30 ± 0.20 mm
	C	0.35 ± 0.20 mm
	D	0.65 ± 0.20 mm

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

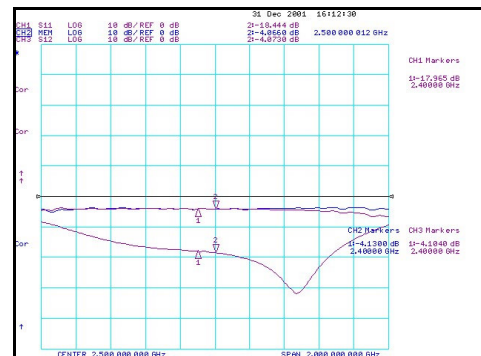
CONSTRUCTION



Outline of 2.4GHz BALUN (2012 size)

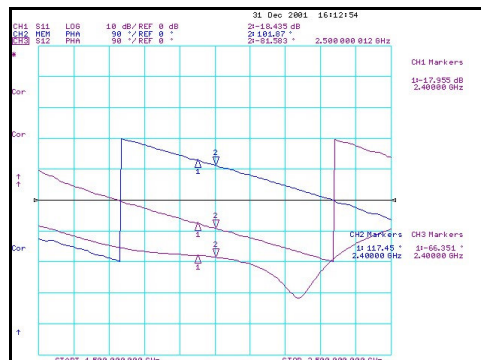
ELECTRICAL PERFORMANCE

(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.