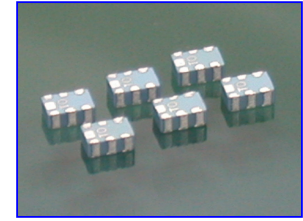


RF PRODUCT INFORMATION

RGBLN2012080A4T 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 0.8 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

RGBLN2012080A4T Series

Spec \ Part Number		RGBLN2012080A4T
Central Frequency		2450 ± 50 MHz
Impedance	Unbalanced	50 Ω
	Balanced	50 Ω
Return Loss		Min. 10 dB
Inband Amplitude imbalance		Max. 2.0 dB
Inband Phase imbalance		Max 180 ± 10 degree
Insertion Loss		1.5 dB

APPLICATIONS

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

DIMENSION

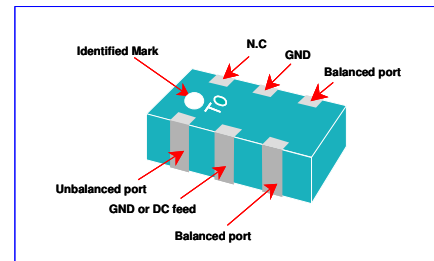
Figure	Symbol	Dimension
	L	2.00 ± 0.15 mm
	W	1.25 ± 0.15 mm
	T	0.80 ± 0.10 mm
	A	0.20 ± 0.20 mm
	B	0.30 ± 0.20 mm
	C	0.35 ± 0.20 mm
	D	0.65 ± 0.20 mm

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

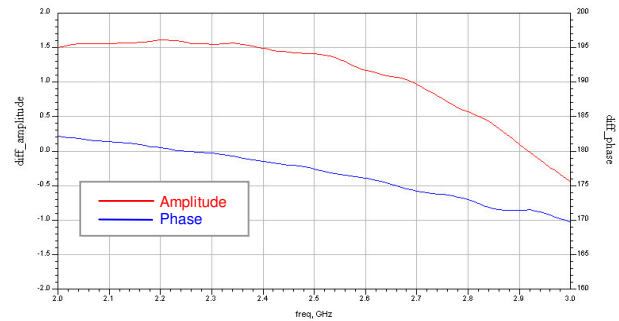
CONSTRUCTION



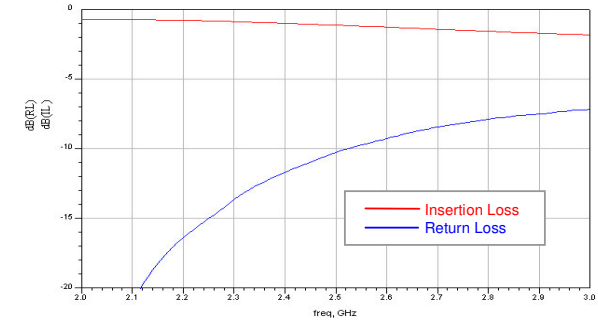
Outline of 2.4GHz BALUN (2012 size)

ELECTRICAL PERFORMANCE

(1). Amplitude and Phase Balance



(2). Insertion and Return Loss



CONTACT INFORMATION

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Specification subject to change without prior notice.