

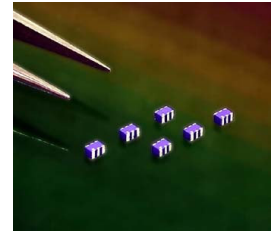
RF Product Information

Multi Layer Chip **BALUN** – 5GHz 2012 (0805)

– RFBLN2012090K1T Series

Patent Pending

For WLAN 802.11a/ HiperLAN 5GHz Application



FEATURES

1. Multilayer 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. Suitable for 5GHz Working Frequency Operation
6. Special Balance/ Unbalance impedance is upon requested.

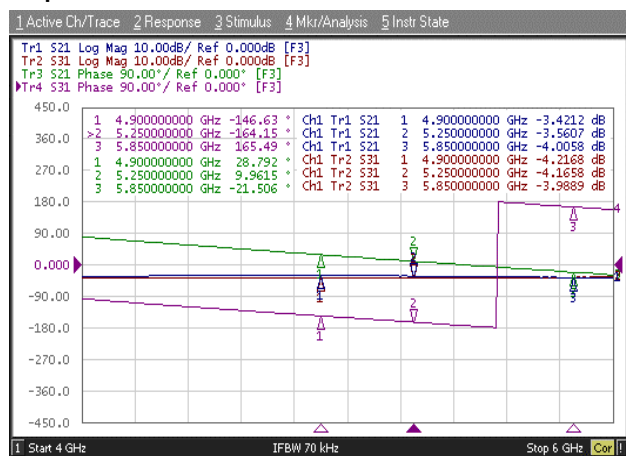
APPLICATIONS

1. IEEE 802.11a Wireless LAN Application
2. ETSI/BRAN HiperLan2 Application

ELECTRICAL CHARACTERISTICS

Spec \ Part Number		RFBLN2012090K1T
Central Frequency		5400 ± 500 MHz
Impedance	Unbalanced	50 Ω
	Balanced	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

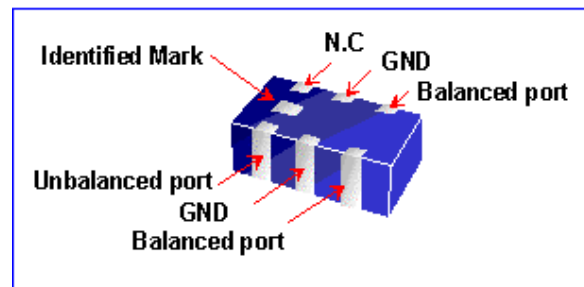
Amplitude balance & Phase balance



Start: 4GHz Stop: 6GHz

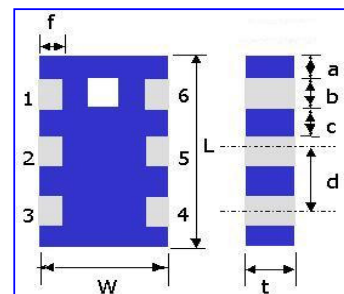
4.90GHz	-146.63°	-3.4212 dB	28.792°	-4.2168 dB
5.25GHz	-164.15°	-3.5607 dB	9.9615°	-4.1658 dB
5.85GHz	165.49°	-4.0058 dB	-21.506°	-3.9889 dB

CONSTRUCTION



Outline of 5GHz BALUN (2012 size)

DIMENSION



Symbol	Dimension	Terminals	Connection
L	2.00 ± 0.15 mm	1	Unbalanced port
W	1.25 ± 0.15 mm	2	Ground
T	0.95 ± 0.10 mm	3	Balanced port
a	0.20 ± 0.20 mm	4	Balanced port
b	0.30 ± 0.20 mm	5	Ground
c	0.35 ± 0.20 mm	6	Non Connection
d	0.65 ± 0.20 mm		
f	0.3 ± 0.20 mm		

CONTACT INFORMATION

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Specification subject to change without prior notice.