

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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High Frequency Ceramic Solutions

2450 MHz EIA 0603 RF Balun

P/N 2450BL14C050

Detail Specification: 2/7/2018 Page 1 of 3

General Specifications		
Part Number	2450BL14C050	
Frequency (MHz)	2400 ~ 2500	
Unbalanced Impedance	50 Ω	
Balanced Differential Impedance	50 Ω	
Insertion Loss	1.2 dB max.	
Return Loss	9.5 dB min.	
Phase Difference	180 ± 10 deg.	
Amplitude Difference	2 dB max.	
Operating Temperature	-40 to +85°C	
Ctovers Temperature Dense	40 to 000	

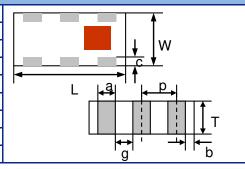


<u>.</u>			
Operating Temperature	-40 to +85°C	Reel Quantity	4,000 pcs
Storage Temperature Range	-40 to +85°C	Power Capacity	3W max. (CW)

You can download measured s-parameters of this component at: https://www.johansontechnology.com/rfbaluns

Part Number Explanation				
P/N Packaging Style Suffix Termination Sty	Pookoging Style	Bulk	Suffix = S	Eg. 2450BL14C050S
	1 .	T&R	Suffix = T	Eg. 2450BL14C050T
	Termination Style	100% Tin	Suffix = None	Eg. 2450BL14C050(T or S)

Me	Mechanical Dimensions			
	ln	mm		
L	0.063 ± 0.004	1.60 ± 0.10		
W	0.031 ± 0.004	0.80 ± 0.10		
Т	0.024 ± 0.004	0.60 ± 0.10		
а	0.008 ± 0.004	0.20 ± 0.10		
b	0.008 +0.004/0.008	0.20 +0.1/-0.15		
С	0.006 ± 0.004	0.15 ± 0.10		
g	0.012 ± 0.004	0.30 ± 0.10		
р	0.020 ± 0.004	0.50 ± 0.10		



Terminal Configuration		
1	Unbalanced Port	
2	GND, or DC Bias + RF GND	
3	Balanced Port	
4	Balanced Port	
5	GND	
6	NC	
	3 2 1	

O.25 Without DC Feed
O.3 Without DC Feed
O.55
O.55
O.3

RF trace geometry must be designed with a 50ohm characteristic impedance

Mount these devices with red mark facing up.
Line width should be designed to provide proper impedance matching characteristics.

Units: mm

Need help with the balun's layout? Want the layout file? Send us a message at: www.johansontechnology.com/component/techquestion

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



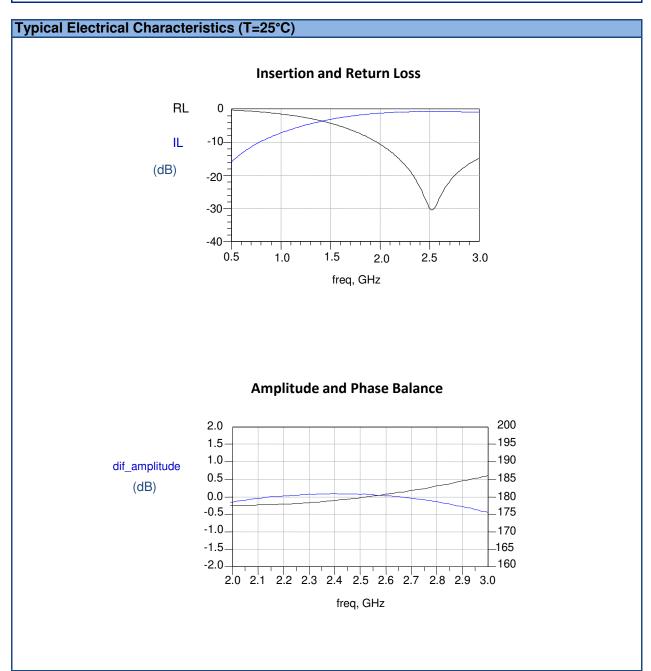
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More Balun info at:

www.johansontechnology.com/rfbaluns

Packaging information

www.johansontechnology.com/ipcpackaging.html

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

Recommneded Storage Condition and Max Shelf Life

www.johansontechnology.com/ipcstorage-shelflife

RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance.html

Antenna layout and tuning techniques

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipcantennaservices

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