



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 Balun

P/N 2450BL14C200

Detail Specification: 2/7/2018

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General Specifications

Part Number	2450BL14C200	Phase Difference	180 ± 10 deg.
Frequency (MHz)	2400 ~ 2500	Amplitude Difference	2 dB max.
Unbalanced Impedance (single ended)	50 Ω	Operating Temperature	-40 to +85°C
Balanced Differential Impedance	200 Ω	Storage Temperature Range	-40 to +85°C
Insertion Loss	1.3 dB max.	Reel Quantity	4,000 pcs
Return Loss	9.5 dB min.	Power Capacity	0.5 watts max.

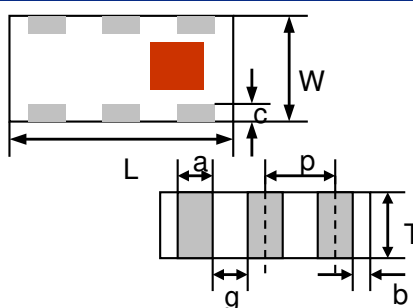
You can download measured s-parameters of this component at: <https://www.johansontechnology.com/rfbaluns>

Part Number Explanation

P/N	Packaging Style	Bulk	Suffix = S	Eg. 2450BL14C200S
Suffix		T & R	Suffix = T	Eg. 2450BL14C200T
	Termination Style	100% Tin	Suffix = None	Eg. 2450BL14C200(T or S)

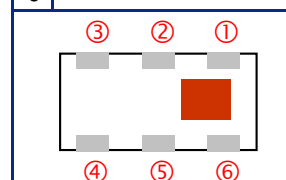
Mechanical Dimensions

	In	mm
L	0.063 ± 0.004	1.60 ± 0.10
W	0.031 ± 0.004	0.80 ± 0.10
T	0.024 ± 0.004	0.60 ± 0.10
a	0.008 ± 0.004	0.20 ± 0.10
b	0.008 +0.004/0.006	0.20 +0.1/-0.15
c	0.006 ± 0.004	0.15 ± 0.10
g	0.012 ± 0.004	0.30 ± 0.10
p	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

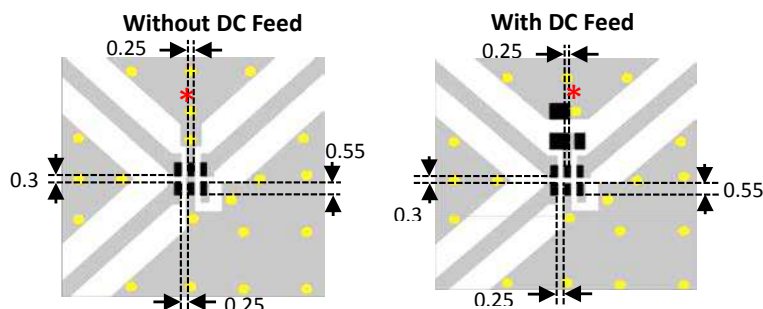





Mounting Considerations

Mount these devices with red mark facing up.

Line width should be designed to provide proper impedance matching characteristics.

Units: mm



-  Solder
-  Land
-  Through-hole (φ 0.3)

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.

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High Frequency Ceramic Solutions

2450 MHz Balun

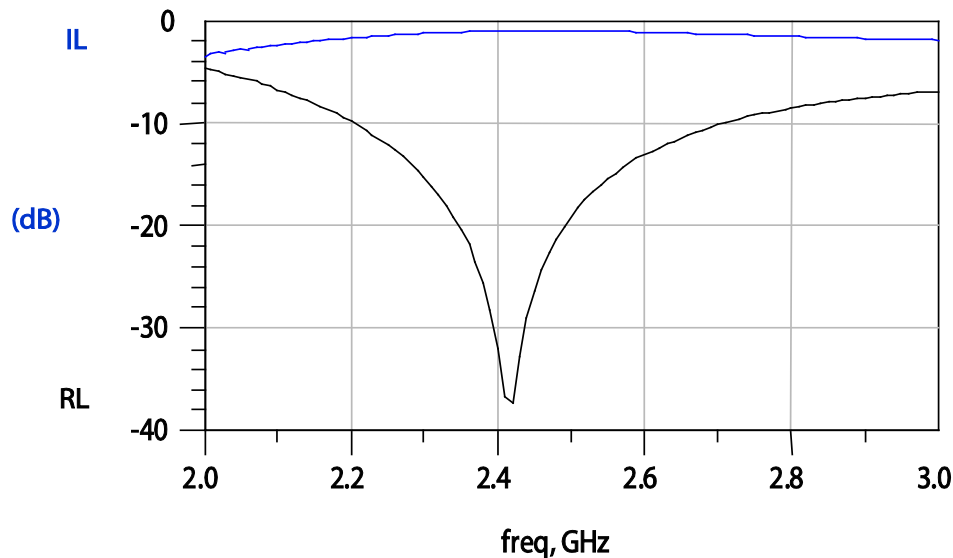
P/N 2450BL14C200

Detail Specification: 2/7/2018

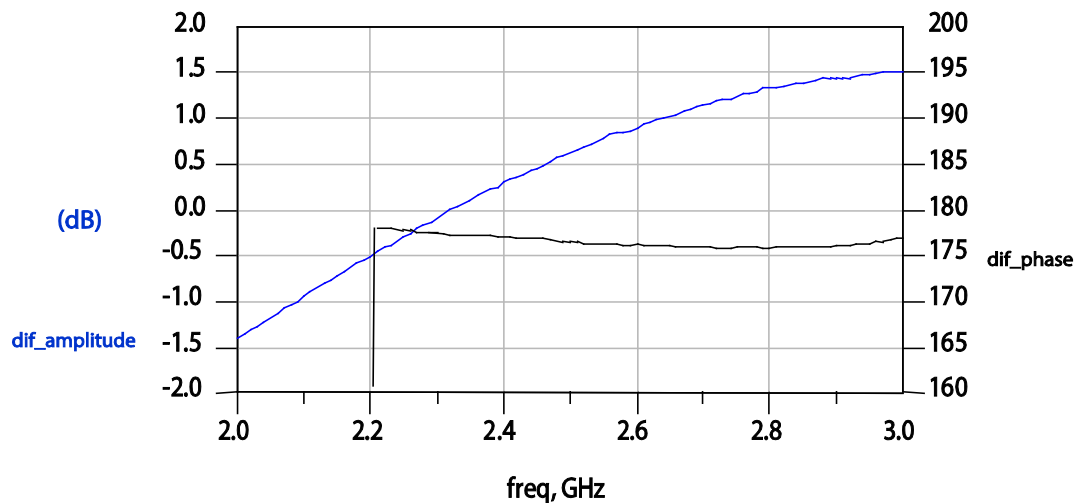
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Typical Electrical Characteristics (T=25°C)

Insertion and Return Loss



Amplitude and Phase Balance



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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

Recommended 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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