



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"

2.45 GHz Balun

P/N 2450BL15B050

Detail Specification: 07/11/16

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General Specifications

Part Number	2450BL15B050	Phase Difference (degree)	180 ± 10
Frequency (MHz)	2400~2500	Amplitude Difference	2 dB max.
Unbalanced Impedence	50 Ω	Operating Temperature	-40 to +85°C
Differential Balanced Imp.	50 Ω	Storage Temperature	-40 to +85°C
Insertion Loss	1.0 dB max.	Reel Quantity	4000
Return Loss	9.5 dB min.	Power Capacity	3.0 watts max.

Mechanical Dimensions

	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.033 ± 0.004	0.85 ± 0.10
a	0.012 ± 0.004	0.30 ± 0.10
b	0.008 ± 0.004	0.20 ± 0.10
c	0.012 +.004/-.006	0.30 +0.1/-0.2
g	0.014 ± 0.004	0.35 ± 0.10
p	0.026 ± 0.002	0.65 ± 0.05

Terminal Configuration

No	Function
1	Unbalanced Port
2	GND or DC feed
3	Balanced Port
4	Balanced Port
5	GND
6	NC

Packaging Considerations

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 2450BL15B050S
		T & R	Suffix = E	eg. 2450BL15B050E
Evaluation Board		2450BL15B050-EB1SMA		

Mounting Considerations

Without DC feed

With DC feed

Mount these devices with brown mark facing up.

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

- Solder Resist
- Land
- Through-hole (φ0.3)

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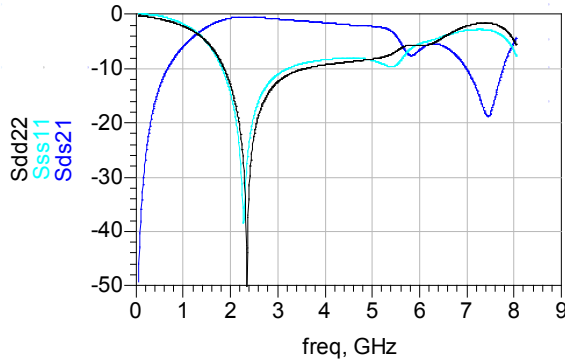
P/N 2450BL15B050

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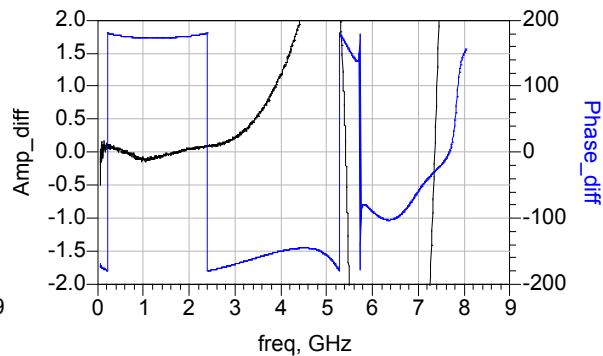
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Typical Electrical Performance (T=25°C)

Insertion and Return Loss



Amplitude and Phase Balance



More Baluns

www.johansontechnology.com/baluns

RoHS Compliance

www.johansontechnology.com/rohs-compliance

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information (i.e. recommended profile)

www.johansontechnology.com/ipcsoldering-profile

Layout Files, s-parameters and any other technical questions

www.johansontechnology.com/ask-a-question

MSL Info

www.johansontechnology.com/msl-rating

Recommended Storage Condition and Max Shelf Life

www.johansontechnology.com/recommended-storage-conditions

Antenna layout and tuning techniques

www.johansontechnology.com/tuning

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