

"High Frequency Ceramic Solutions"

2.45 GHz Balun

P/N 2450BL15B050

Detail Specification: 1/18/2019

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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 +105°C
Differential Balanced Imp.	50 Ω	Storage Temperature	-40 to +105°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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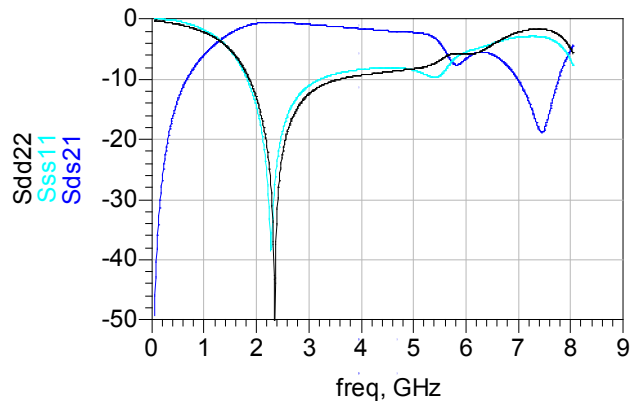
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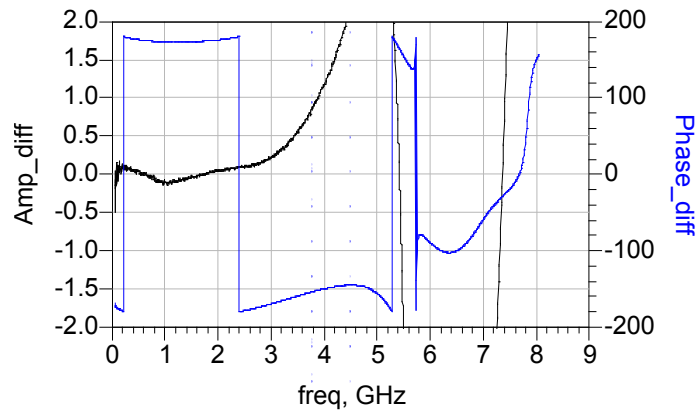
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Typical Electrical Performance (T=25°C)

Insertion and Return Loss



Amplitude and Phase Balance



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More Balun info at:

www.johansontechnology.com/baluns

RoHS Compliance

www.johansontechnology.com/rohs-compliance

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

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

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipc-antenna-services

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