

High Frequency Ceramic Solutions

2.45 GHz 1:2 Impedance Balun

P/N 2450BL15B100

Detail Specification: 05/03/11

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General Specifications

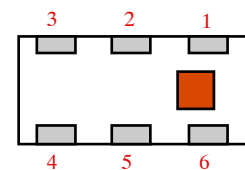
Part Number	2450BL15B100
Frequency (MHz)	2400 ~ 2500
Unbalanced Impedance	50 Ω
Balanced Impedance	100 Ω
Insertion Loss	1.0 dB max.
Return Loss	9.5 dB min.

Phase Difference	180° $\pm$ 10
Amplitude Difference	2.0 dB max.
Operating Temperature	-40 to +85°C
Storage Temperature Range	+5 ~ +35°C, Humidity 45~75%RH 18 mos. max.
Reel Quantity	4,000
Power Capacity	2 watts max.

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2450BL15B100S
		T & R	Suffix = E	Eg. 2450BL15B100E
	Termination Style	100% Tin	Suffix = None	Eg. 2450BL15B100(E or S)
		Tin / Lead	Please consult Factory	

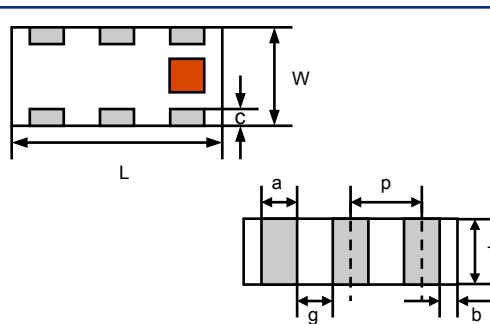
Terminal Configuration

No.	Function
1	Unbalanced Port (IN)
2	GND or DC feed+RF GND
3	Balanced Port (OUT1)
4	Balanced Port (OUT2)
5	GND
6	NC



Mechanical Dimensions

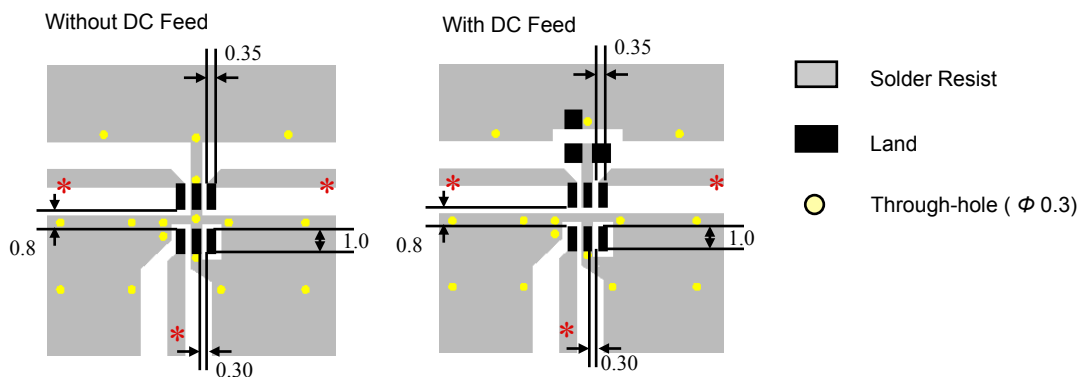
	In	mm
L	0.079 $\pm$ 0.004	2.00 $\pm$ 0.10
W	0.049 $\pm$ 0.004	1.25 $\pm$ 0.10
T	0.037 $\pm$ 0.004	0.95 $\pm$ 0.10
a	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
b	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
c	0.012 $\pm$ 0.004/-0.008	0.30 $\pm$ 0.1/-0.20
g	0.014 $\pm$ 0.004	0.35 $\pm$ 0.10
p	0.026 $\pm$ 0.002	0.65 $\pm$ 0.05



Mounting Considerations

Mount these devices with brown mark facing up. ** By-pass capacitor should be connected when feeding DC power.

* Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.



Units: mm

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

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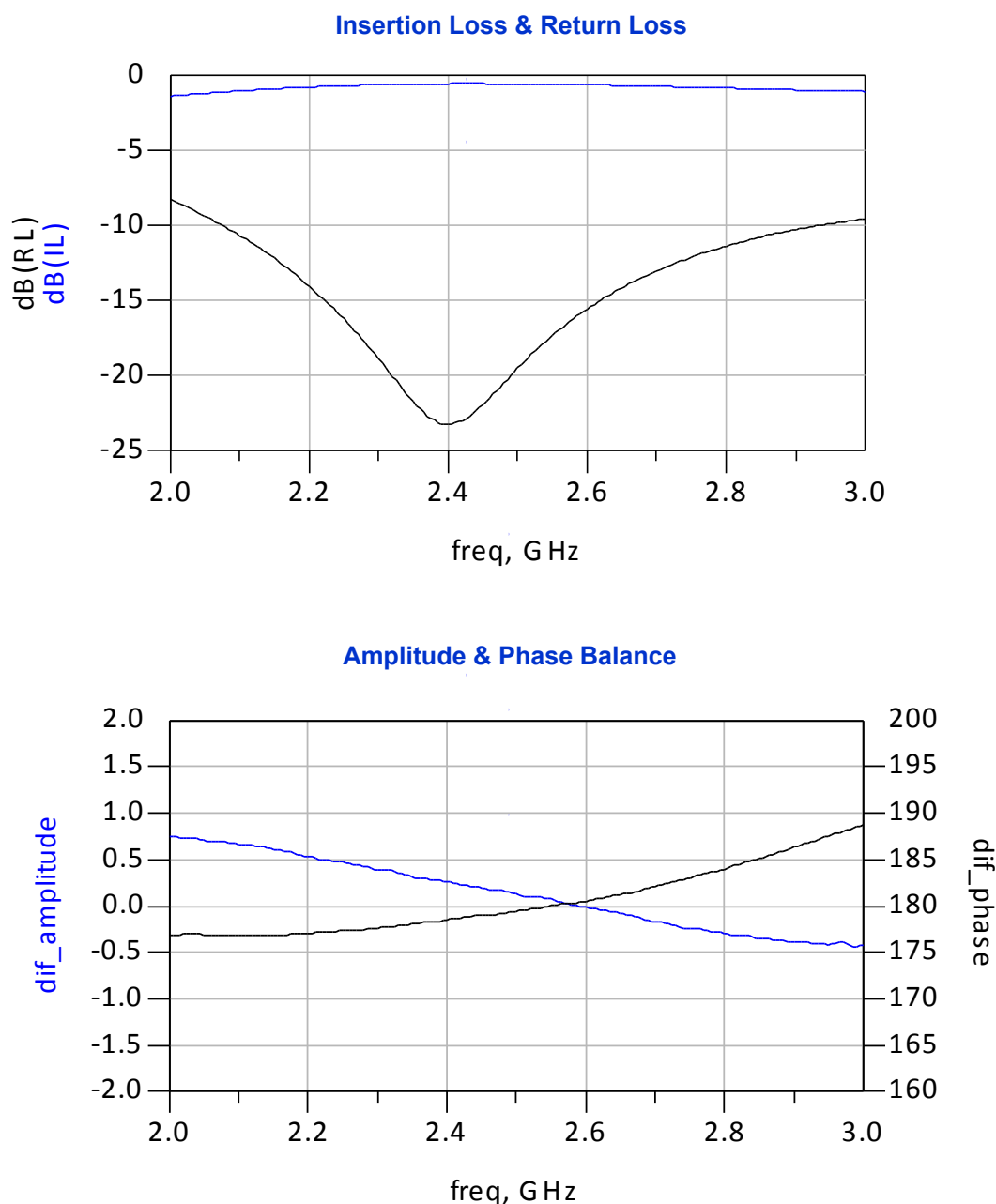
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Typical Electrical Performance (T=25°C)



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