

# High Frequency Ceramic Solutions

## 2.45 GHz Balun

P/N 2450BL15B150

Detail Specification: 06/04/07

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### General Specifications

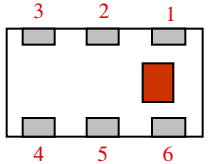
Part Number	2450BL15B150
Frequency (MHz)	2400 - 2500
Unbalanced Impedance	50 $\Omega$
Balanced Impedance	150 $\Omega$
Insertion Loss	1.0 dB max.
Return Loss	9.5 dB min.

Phase Difference	180° $\pm$ 10
Amplitude Difference	2.0 dB max.
Operating Temperature	-40 to +85°C
Reel Quantity	4,000
Power Capacity	3 watts max.
MSL	2

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2450BL15B150S
	Termination Style	T & R	Suffix = E	Eg. 2450BL15B150E
	Style	100% Tin	Suffix = None	Eg. 2450BL15B150(E or S)
		Tin / Lead	Please consult Factory	

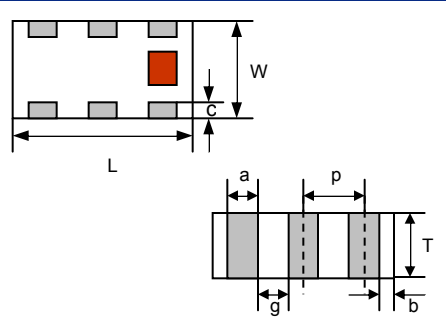
### Terminal Configuration

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

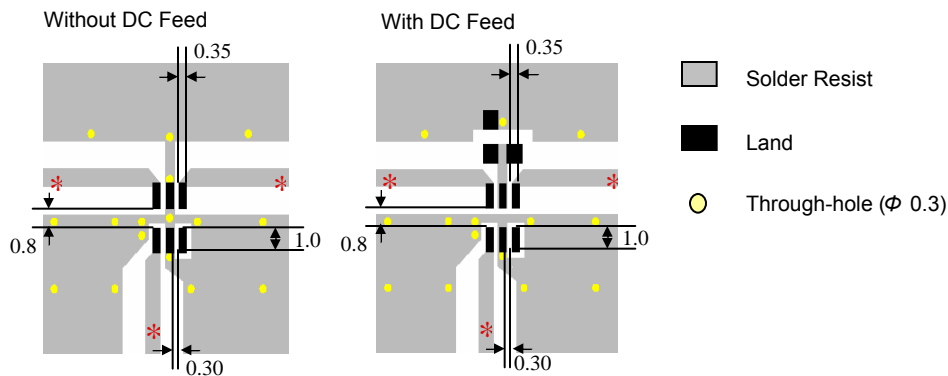
	In	mm
L	0.079 $\pm$ 0.004	2.00 $\pm$ 0.10
W	0.049 $\pm$ 0.004	1.25 $\pm$ 0.10
T	0.037 $\pm$ 0.004	0.95 $\pm$ 0.10
a	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
b	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
c	0.012 +.004/-0.008	0.30 +0.1/-0.20
g	0.014 $\pm$ 0.004	0.35 $\pm$ 0.10
p	0.026 $\pm$ 0.002	0.65 $\pm$ 0.05



### 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  $\Omega$  characteristic impedance, depending on PCB material and thickness.



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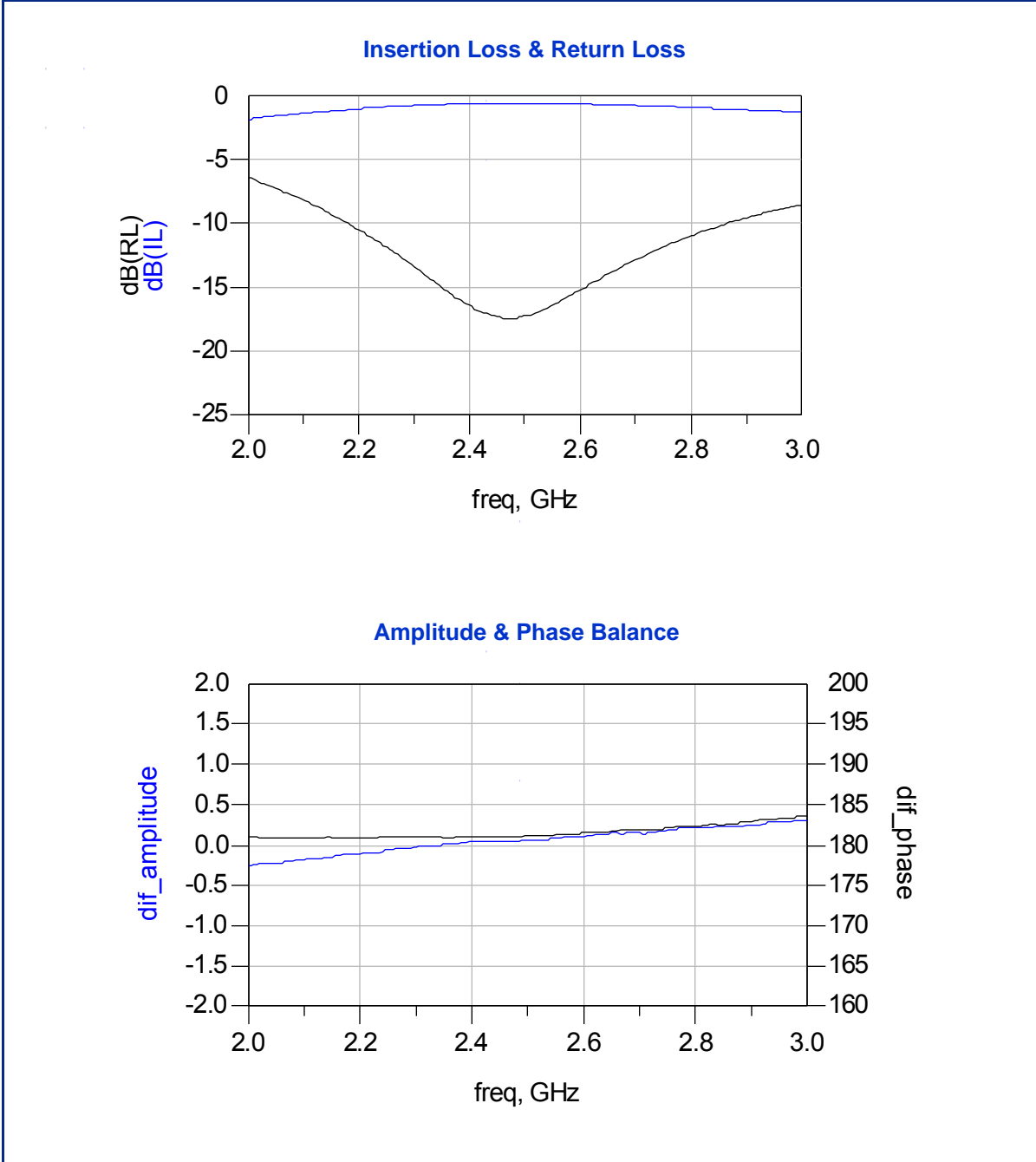
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Typical Electrical Performance (T=25°C)



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