High Frequency Ceramic Solutions

2.45 GHz Balun — P/N 2450BL15B150

Detail Specification: 06/04/07

General Specifications

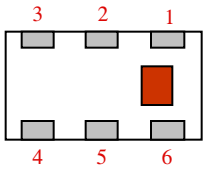
Part Number	2450BL15B150
Frequency (MHz)	2400 - 2500
Unbalanced Impedence	50 Ω
Balanced Impedence	150 Ω
Insertion Loss	1.0 dB max.
Return Loss	9.5 dB min.

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

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

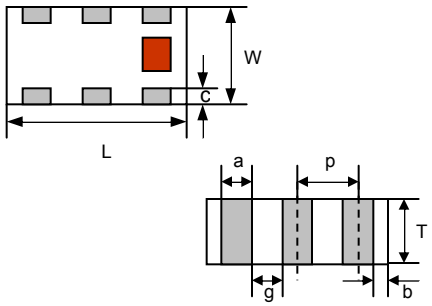
Terminal Configuration

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

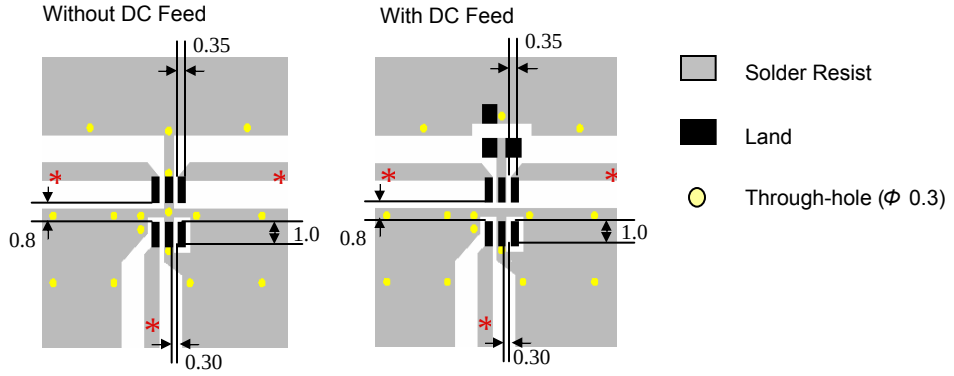
	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.037 ± 0.004	0.95 ± 0.10
a	0.012 ± 0.004	0.30 ± 0.10
b	0.008 ± 0.004	0.20 ± 0.10
c	0.012 +.004/-.008	0.30 +0.1/-0.20
g	0.014 ± 0.004	0.35 ± 0.10
p	0.026 ± 0.002	0.65 ± 0.05



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.
All sales are subject to Johanson Technology, Inc. terms and conditions.

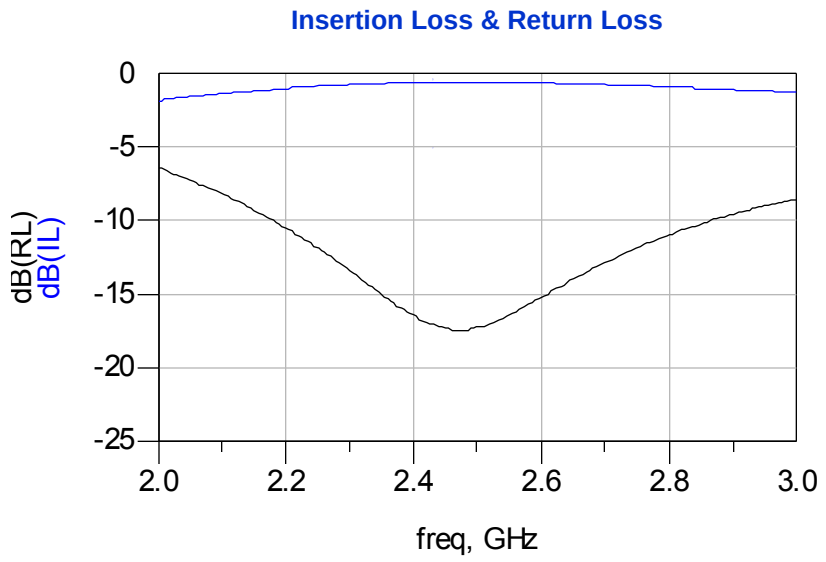
JOHANSON TECHNOLOGY
www.johansontechnology.com
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

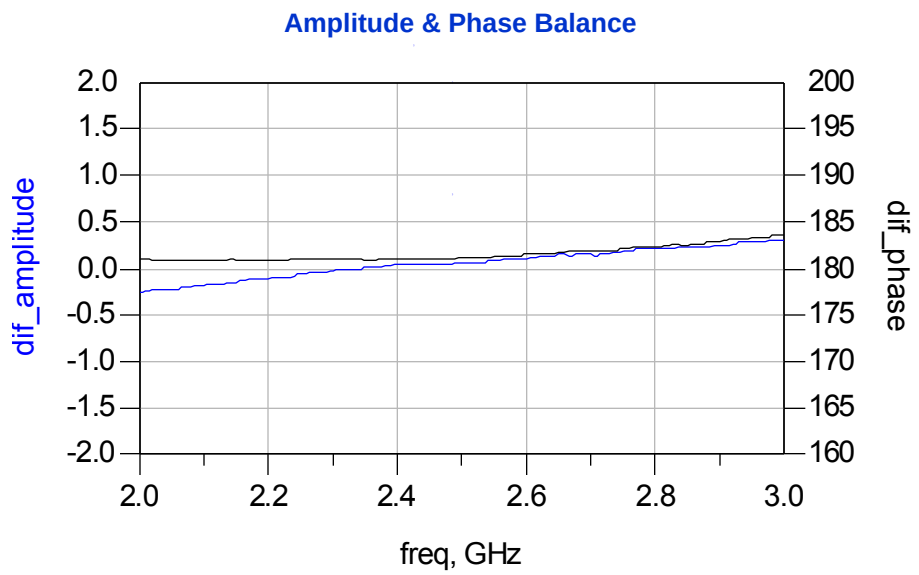
2007 Johanson Technology, Inc. All Rights Reserved

2.45 GHz Balun **P/N 2450BL15B150**

Detail Specification: 06/04/07 Page 2 of 2

Typical Electrical Performance (T=25°C)





Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.

JOHANSON TECHNOLOGY
www.johansontechnology.com
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2007 Johanson Technology, Inc. All Rights Reserved