High Frequency Ceramic Solutions

2.45 GHz RF Balun. 1:2 Ratio, 50/100Ω Impedance

P/N 2450BL15B100

Detail Specification: 3/12/2014 Page 1 of 3

General Specifications					
Part Number	2450BL15B100				
Frequency (MHz)	2400 ~ 2500				
Unbalanced Impedance	50Ω				
Balanced Differential Imped.	100Ω				
Insertion Loss	1.0 dB max.				
Return Loss	9.5 dB min.				
Phase Difference	180° ± 10°				
Amplitude Difference	2.0 dB max.				

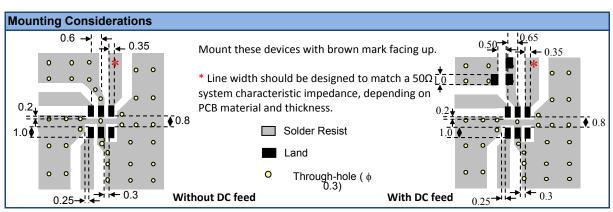


Filase Difference	100 ± 10				
Amplitude Difference	2.0 dB max.	Operating Temperature	-40 to +85°C		
Input Power	3 Watts max. (CW)	Reel Quanity	4,000		

Ме	Mechanical Dimensions									
	In	mm								
L	0.079 ± 0.004	2.00 ± 0.10	— — <u>— , </u>							
W	0.049 ± 0.004	1.25 ± 0.10								
Т	0.033 ± 0.004	0.85 ± 0.10	→							
а	0.012 ± 0.004	0.30 ± 0.10	lal lbl							
b	0.008 ± 0.004	0.20 ± 0.10								
С	0.012 +.004/008	0.30 +0.1/-0.2	$ \ \ \ \ \ \ \ \ \ \$							
g	0.014 ± 0.004	0.35 ± 0.10								
р	0.026 ± 0.002	0.65 ± 0.05	-g ' -→ _b							

Terminal Configuration								
No.	Function	No.	Function					
1	Unbalanced Port	4	Balanced Port					
2	GND or DC Feed	5	GND					
3	Balanced Port	6	NC					
3 2 1								
	4 5		6					

P/N Suffix	Packing Style	Bulk		Suffix = S	eg. 2450BL15B100S
	racking Style	T&R		Suffix = E	eg. 2450BL15B100E
	Evaluation Board		2450BL	15B100-EB1SMA (3	Female SMA connector ona 50Ω PCB)



Want the layout file of the above? Send us a message at: www.johansontechnology.com/component/techquestion

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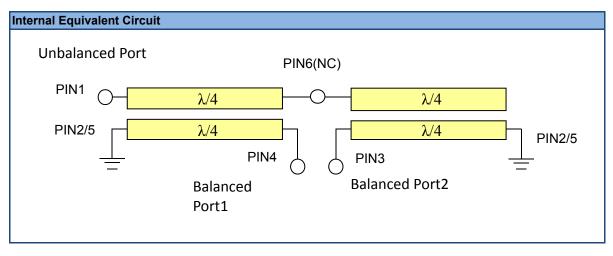
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

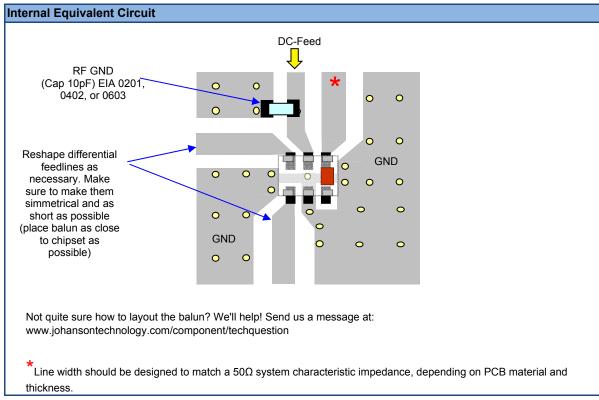
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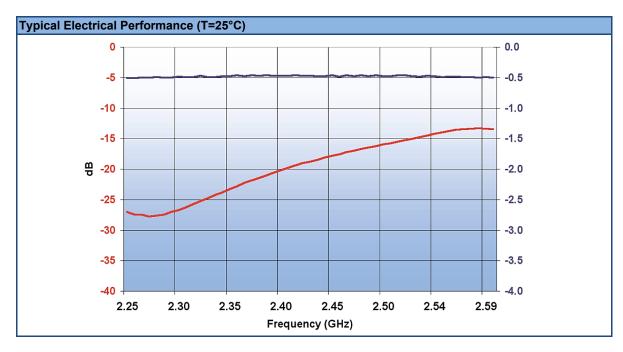


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www.johansontechnology.com/rfbaluns

RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance.html

Packaging information

www.johansontechnology.com/ipcpackaging.html

Soldering Information (i.e. recommended profile)

www.johansontechnology.com/ipcsoldering-profile

Layout Files, s-parameters and any other technical questions

www.johansontechnology.com/component/techquestion/?Itemid=407

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

Recommneded Storage Condition and Max Shelf Life

www.johansontechnology.com/ipcstorage-shelflife

Antenna layout and tuning techniques

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipcantennaservices

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