

High Frequency Ceramic Solutions

2.45 GHz Balun/Match optimized for TI Chipsets CC2430/1 and 2480 P/N 2450BM15A0001

Detail Specification: 7/7/2010

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General Specifications

Part Number	2450BM15A0001
Frequency (MHz)	2400 - 2500
Unbalanced Impedance	50 Ω
Differential Balanced Impedance	Conj. Match to T.I. Chipsets CC2430 and CC2480
Insertion Loss	1.0 dB max.
Return Loss	10.0 dB min.

Phase Difference	180° \pm 15
Amplitude Difference	1.5 dB max.
Operating Temperature	-40 to +85°C
Reel Quantity	4,000

P/N	Packaging Style	Bulk	Suffix = S	Eg. 2450BM15A0001S
		T & R	Suffix = E	Eg. 2450BM15A0001E
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 2450BM15A0001(E or S)
		Tin / Lead	Please consult Factory	

Mechanical Dimensions

	In	mm	
L	0.079 \pm 0.004	2.00 \pm 0.10	<p>Package Type: 15-1</p>
W	0.049 \pm 0.004	1.25 \pm 0.10	
T	0.028 \pm 0.004	0.70 \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	

Terminal Configuration

No.	Function
1	Unbalanced Port*
2	GND
3	GND
4	Balanced Port
5	DC Feed
6	Balanced Port

* DC blocking capacitor may be required

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www.johansontechnology.com

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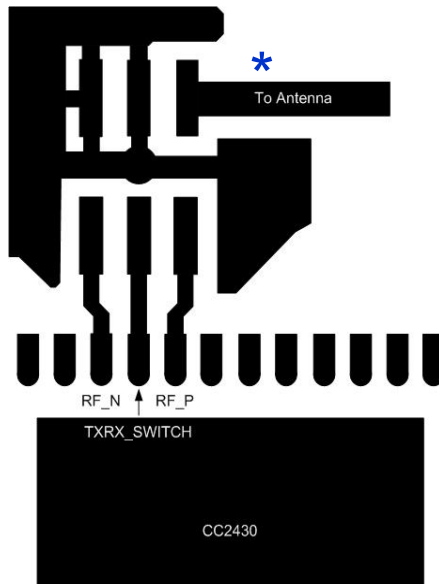
Mounting Considerations

Mounting layout for reference only.

Mount device with colored mark facing up.

For detailed dimensions, please contact Johanson Technology or visit TI's CC2430 website:

<http://focus.ti.com/docs/prod/folders/print/cc2430.html>

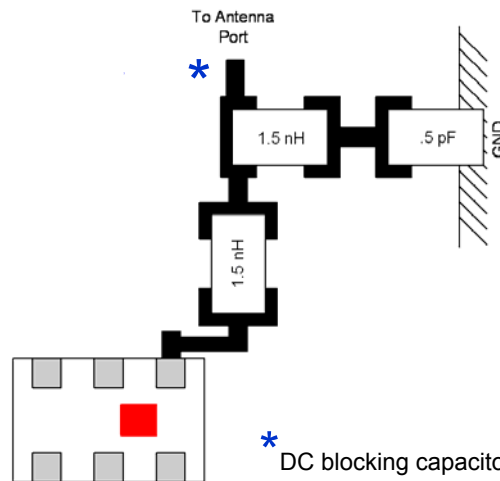


Note: Additional output filtering may be required depending on output power in order to comply with FCC and ETSI regulations

Component P/N:

1.5nH Inductor: L-07C1N5SV6T

0.5pF Capacitor: 500R07S0R5BV4T



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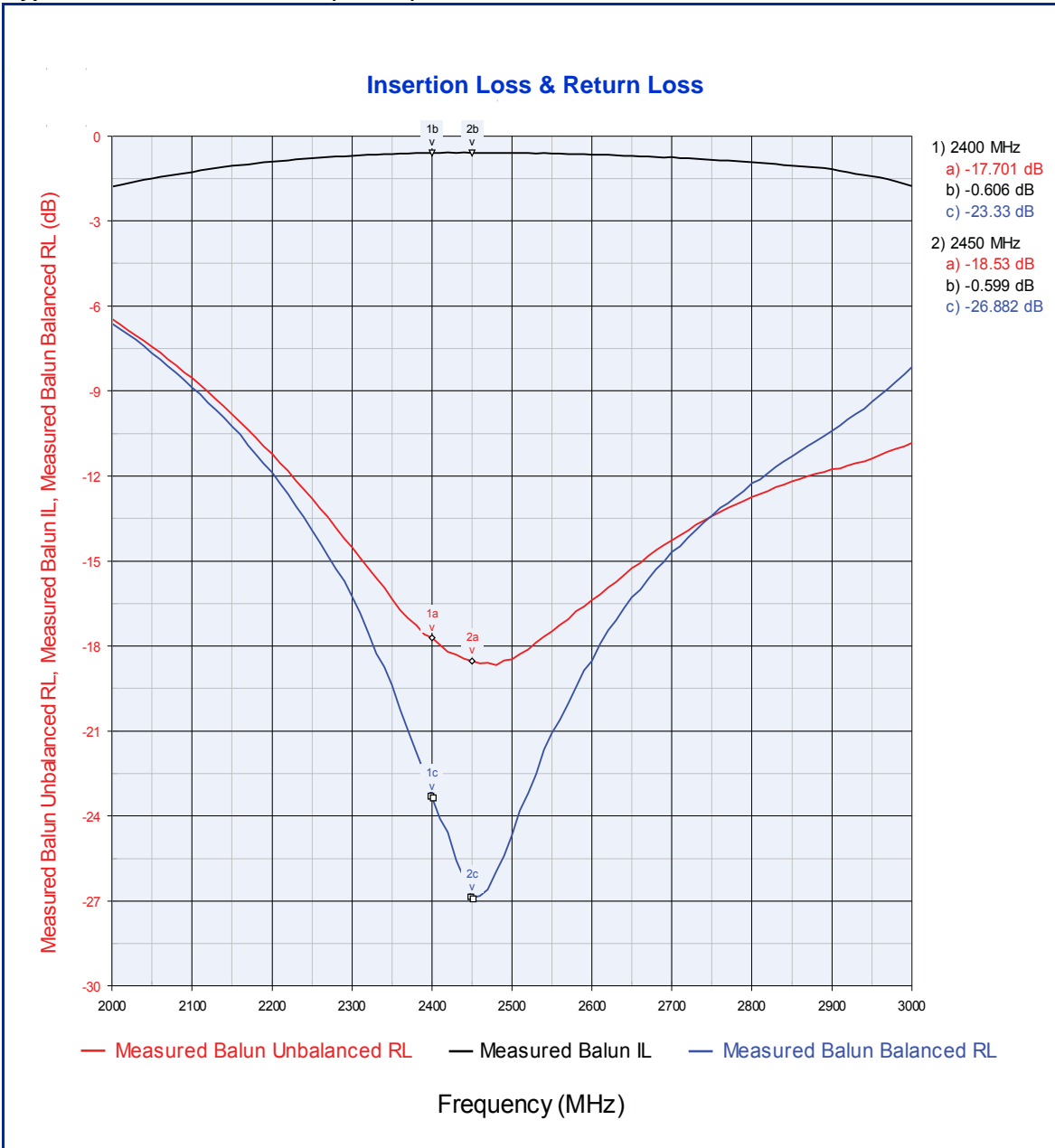
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Typical Electrical Performance (T=25°C)



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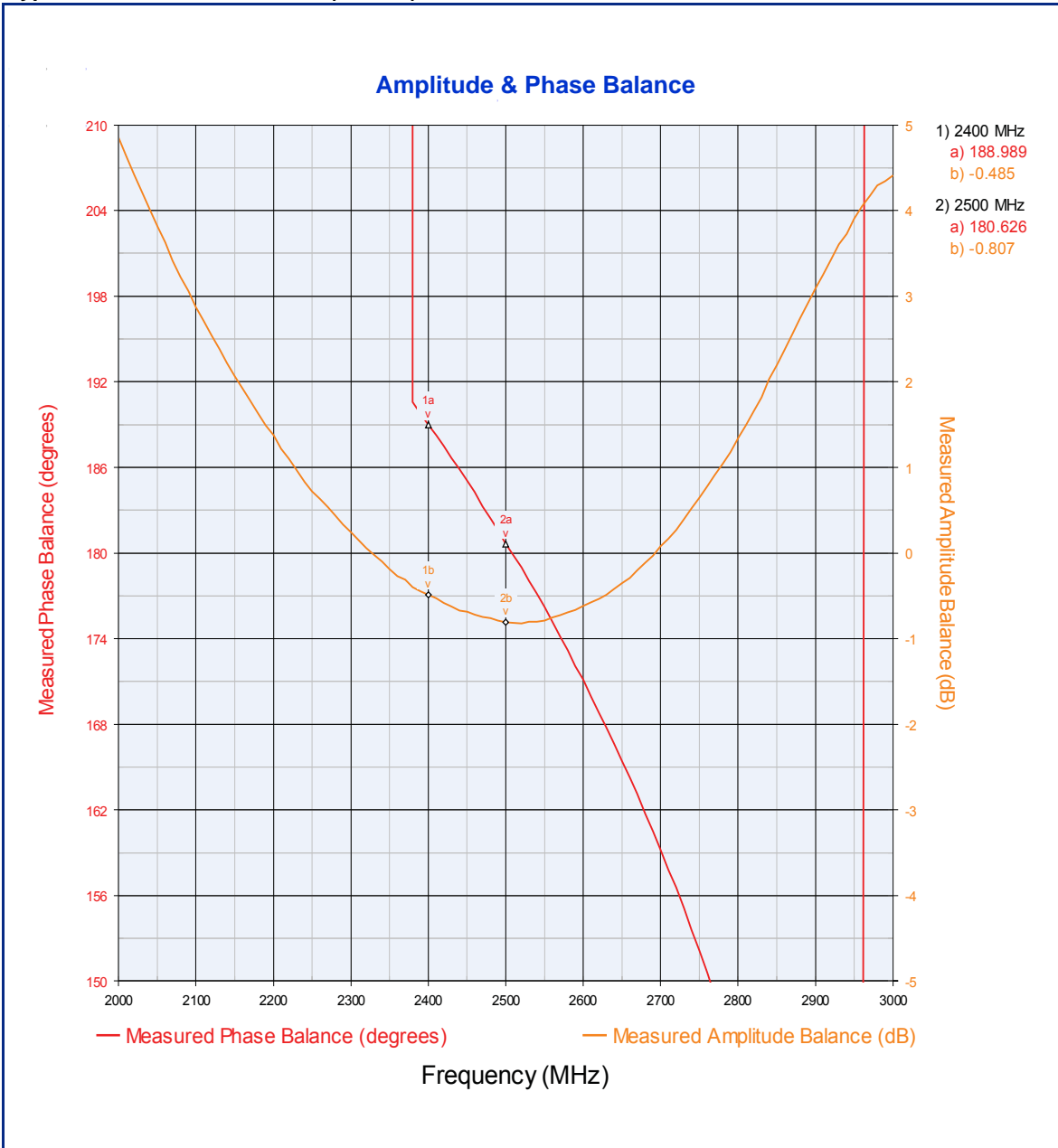
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