High Frequency Ceramic Solutions

2.45 GHz Impedance Matched Balun-Filter: For TI CC253X, CC254X, CC257X, P/N 2450BM15A0002 and CC852X Chipset family

Detail Specification: 3/15/2012 Page 1 of 2

General Specifications

Part Number	2450BM15A0002	
Frequency (MHz)	2400 - 2500	
Unbalanced Impedance	50 Ω	
Balanced Impedance	Impedance match to T.I. CC253X, CC254X, CC257X and CC852X Chipsets	
Insertion Loss	1.5 dB max.	
Differential Mode Attenuation (dB)	15 min.@ 4800~5000MHz	
	20 min.@ 7200~7500MHz	

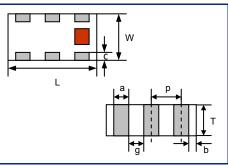
Return Loss	10.0 dB min.
Phase Difference	180° ± 15
Input Power	2W max.
Reel Quanity	4,000
Operating Temperature	-40 to +85°C
Storage Temperature Range	+5 ~ +35 °C, Humidity 45~75%RH, 12 mos. max

TECHNICAL NOTES, go to: http://johansontechnology.com/en/integrated-passives/chipset-specific-baluns/texas-instruments-ti.html

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2450BM15A0002S
		T&R	Suffix = E	Eg. 2450BM15A0002E
	Termination Style	100% Tin	Suffix = None	Eg. 2450BM15A0002(E or S)
	Evaluation Board		2450BM15A0002-EBSMA	

Mechanical Dimensions

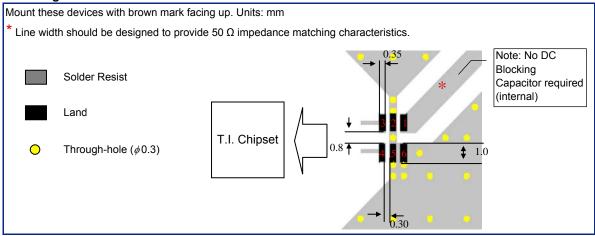
	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
Т	0.028 ± 0.004	0.70 ± 0.10
а	0.012 ± 0.004	0.30 ± 0.10
b	0.008 ± 0.004	0.20 ± 0.10
С	0.012 +.004/008	0.30 +0.1/-0.2
g	0.014 ± 0.004	0.35 ± 0.10
р	0.026 ± 0.002	0.65 ± 0.05



Terminal Configuration

No.	Function	
1	Unbalanced Port	
2	GND	
3	Balanced Port	
4	Balanced Port	
5	GND	
6	GND	
	3 2 1	
	4 3 0	

Mounting Considerations



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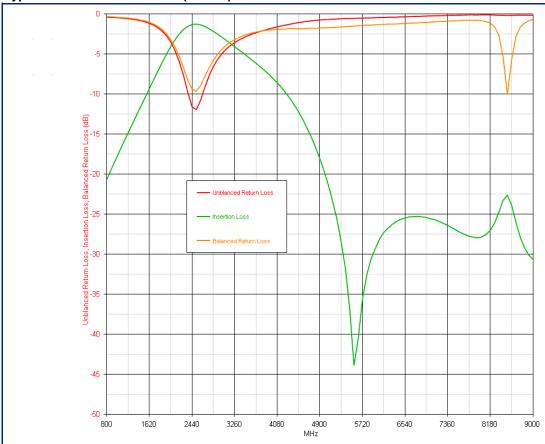
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Typical Electrical Performance (T=25°C)



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