

2.45 GHz Matched Balun / LP Filter : Optimized for TI CC253X Chipset family
P/N 2450BM15A0002

Detail Specification: 06/30/2010

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General Specifications

Part Number	2450BM15A0002
Frequency (MHz)	2400 - 2500
Unbalanced Impedance	50 Ω
Balanced Impedance	Conjugate match to T.I. CC253X 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° $\pm$ 15
Input Power	2W max.
Reel Quantity	4,000
Operating Temperature	-40 to +85°C
Storage Temperature Range	+5 ~ +35 °C, Humidity 45~75%RH, 12 mos. max

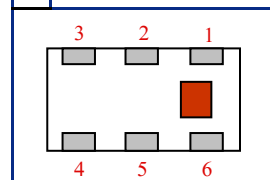
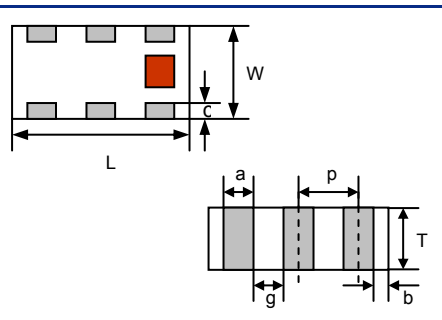
P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2450BM15A0002S
		T & R	Suffix = E	Eg. 2450BM15A0002E
	Termination Style	100% Tin	Suffix = None	Eg. 2450BM15A0002(E or S)
		Tin / Lead	Please consult Factory	

Terminal Configuration

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

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	0.028 $\pm$ 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 $\pm$ 0.004/-0.008	0.30 $\pm$ 0.1/-0.2
g	0.014 $\pm$ 0.004	0.35 $\pm$ 0.10
p	0.026 $\pm$ 0.002	0.65 $\pm$ 0.05

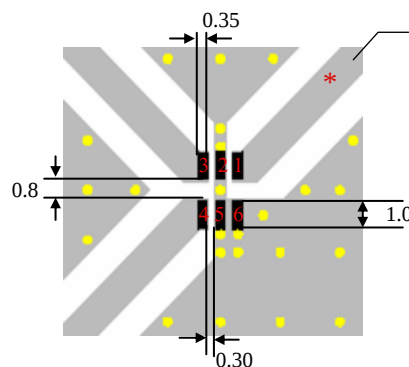

Mounting Considerations

Mount these devices with brown mark facing up. Units: mm

* Line width should be designed to provide 50 Ω impedance matching characteristics.

Solder Resist

Land

 Through-hole (ϕ 0.3)


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Preliminary

High Frequency Ceramic Solutions

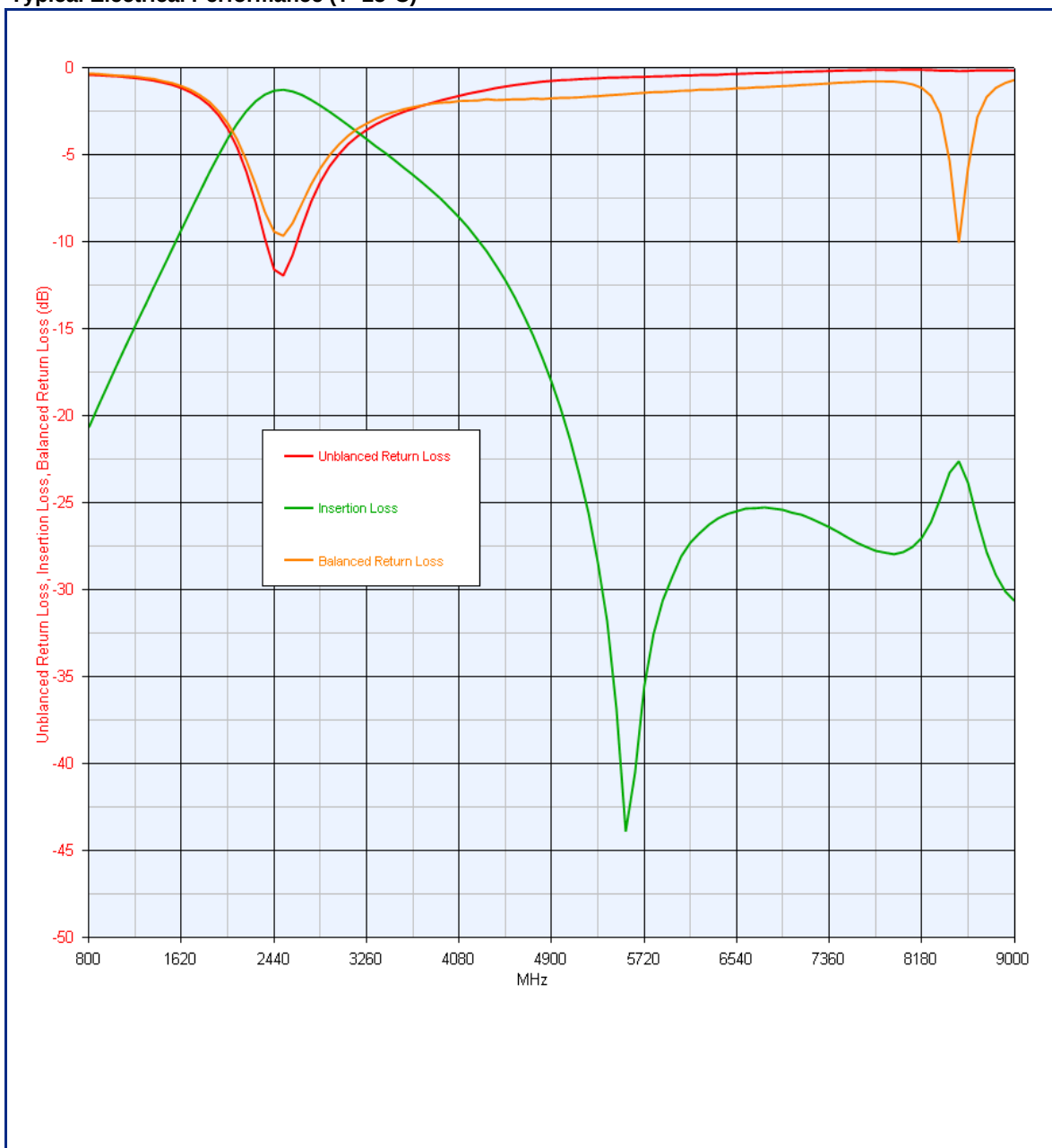
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Typical Electrical Performance (T=25°C)



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