

High Frequency Ceramic Solutions

2.4 GHz Impedance-Matched Integrated RF Front End Passive Balun Filter for ADF7241 and ADF7242

P/N 2450BM14E0007

Detail Specification: 8/31/2012

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General Specifications

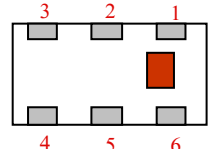
Part Number	2450BM14E0007	Insertion Loss	1.5 dB max.
Frequency (MHz)	2400 - 2500	Return Loss	9.5 dB min.
Unbalanced Impedance (Antenna Out)	50 Ω	Phase Difference	180° $\pm$ 10°
Balanced Differential Impedance	Conjugate match to ADI ADF7241 and ADF7242	Amplitude Difference	2.0 dB max.
Attenuation (dB)	25min.@4800~5000MHz 25min.@7200~7500MHz	Reel Quantity	4,000
Power Capacity	2W max.	Operating Temperature	-40 to +85°C
		Recommended Storage Conditions	+5 to +35°C, Humidity: 45-75%RH, 18 mos. Max *

*18 months in vacuum sealed bag and 1 week cumulative after opened. For more info go to www.johansontechnology.com/silverleads

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2450BM14E0007S
		T & R (Paper)	Suffix = E	Eg. 2450BM14E0007T
	Termination Style	AgPt	Suffix = None	Eg. 2450BM14E0007(S or T)

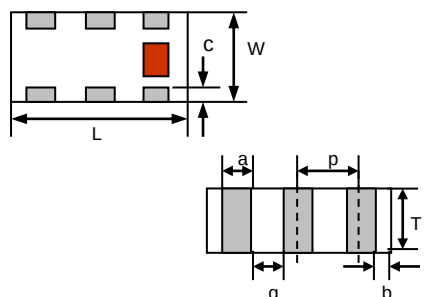
Terminal Configuration

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



Mechanical Dimensions

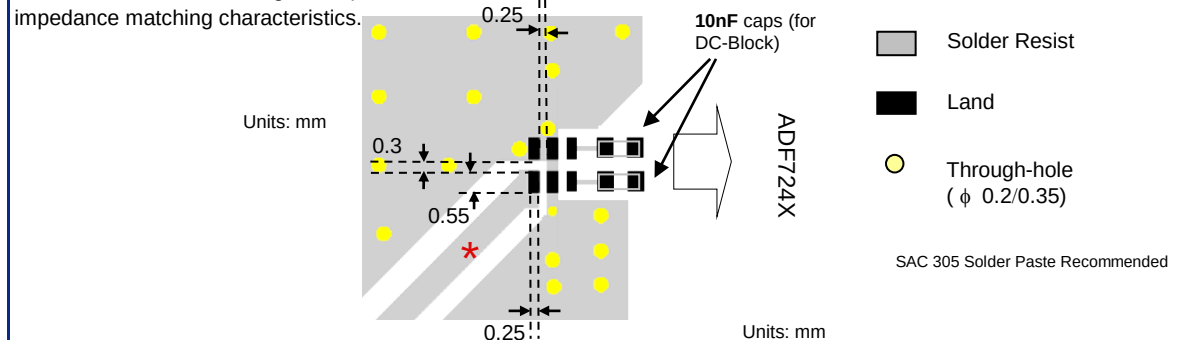
	In	mm
L	0.063 $\pm$ 0.004	1.60 $\pm$ 0.10
W	0.031 $\pm$ 0.004	0.80 $\pm$ 0.10
T	0.024 $\pm$ 0.004	0.60 $\pm$ 0.10
a	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
b	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
c	0.006 $\pm$ 0.004	0.15 $\pm$ 0.10
g	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
p	0.020 $\pm$ 0.002	0.50 $\pm$ 0.05



Mounting Considerations

Mount these devices with brown mark facing up.

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



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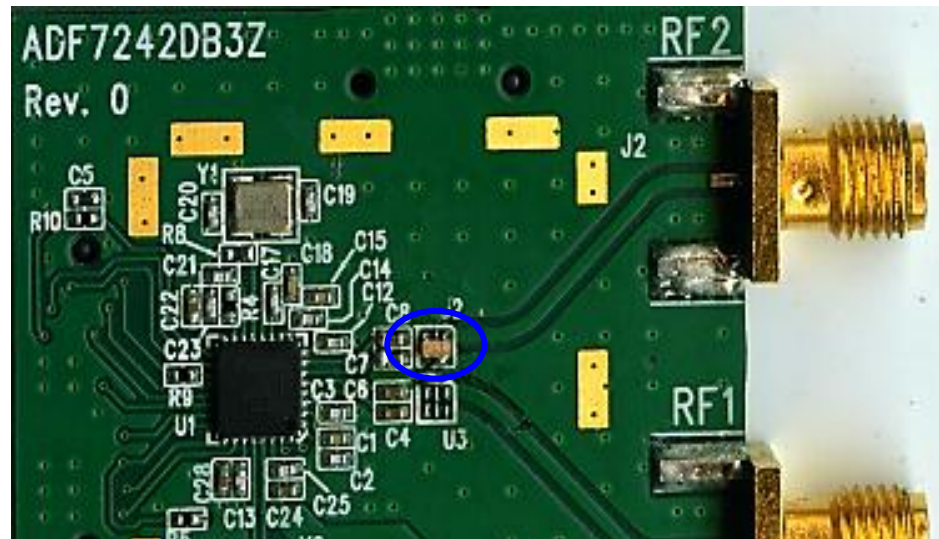
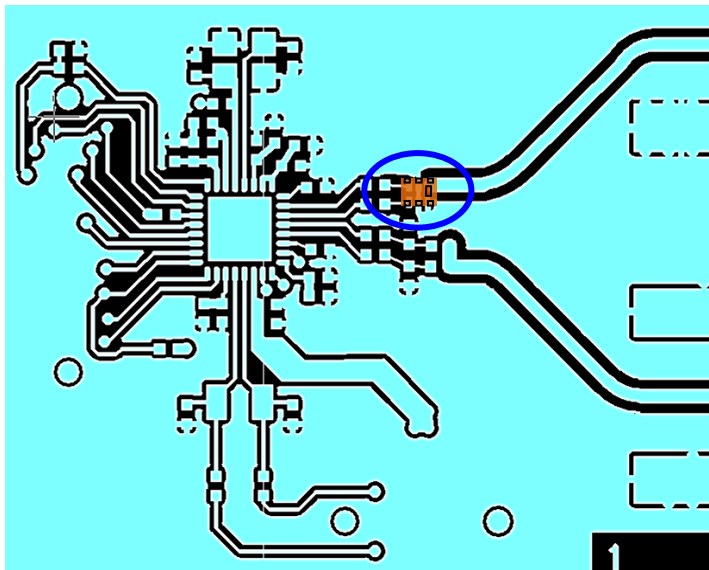
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Layout Details



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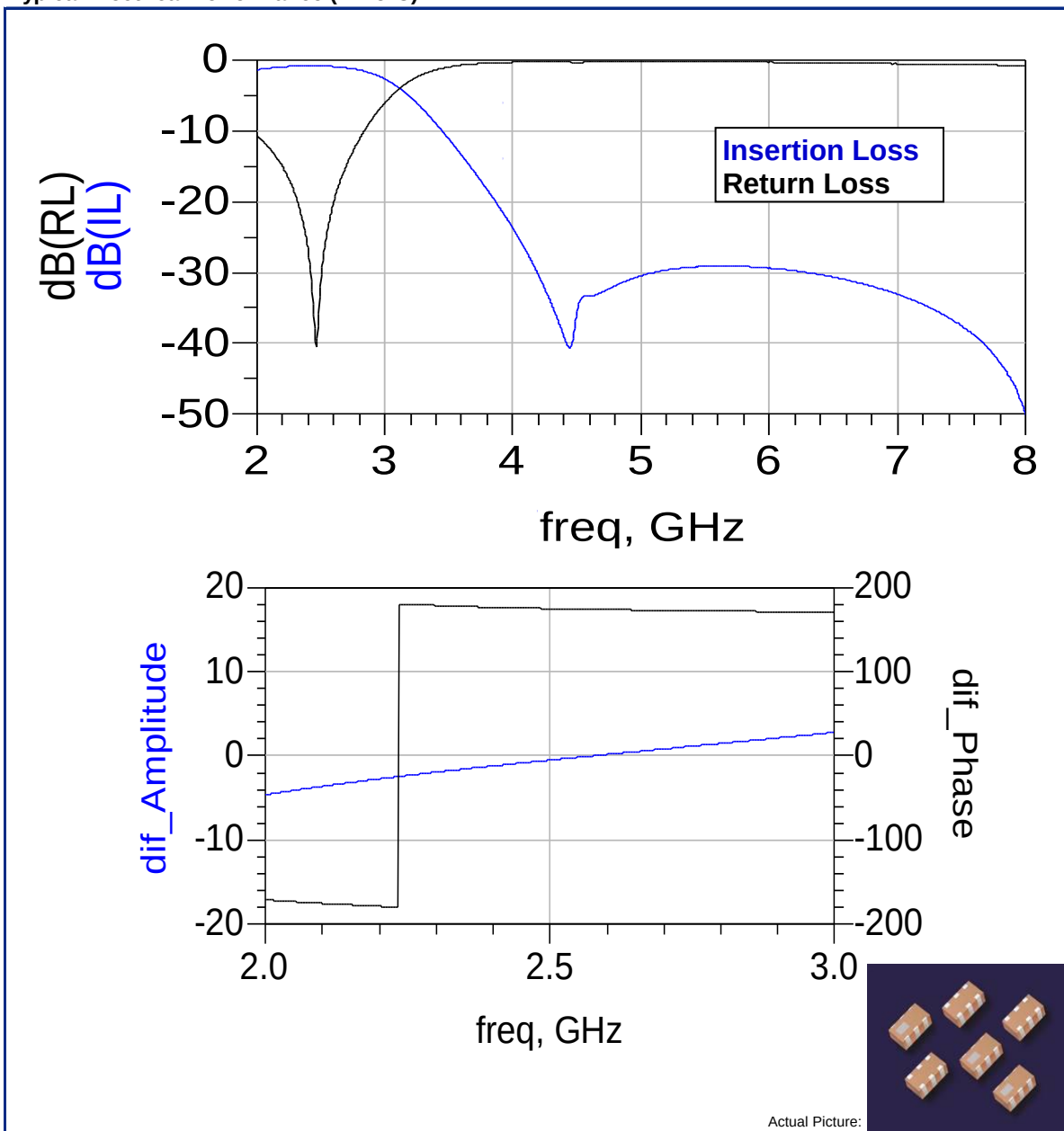
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Typical Electrical Performance (T=25°C)



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