



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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High Frequency Ceramic Solutions

2.45 GHz Impedance Matched Balun-Filter: Optimized for Nordic's Chipset
 nRF24L01, nRF24L01+, nRF24LE1, nRF24LU1, nRF24AP2, and nRF8001

P/N 2450BM14A0002

Detail Specification: 6/13/2012

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General Specifications	
Part Number	2450BM14A0002
Frequency (MHz)	2400 - 2500
Unbalanced Impedance	50 Ω
Differential Balanced Impedance	Imp. Conjugate match to Nordic nRF24L01, nRF24L01+, nRF24LE1, nRF24LU1, nRF24AP2, and nRF8001
Attenuation: Differential Mode	15 min.@4800~5000MHz 15 min.@7200~7500MHz
Attenuation: Common Mode	20 min.@4800~5000MHz

Insertion Loss	2.0 dB max.
Return Loss	9.5 dB min.
Phase Difference	160° \pm 15°
Amplitude Difference	3.5 \pm 1.5 dB
Reel Quantity	4,000
Operating Temperature	-40 to +85°C
Recommended Storage Conditions	+5 to +35°C, Humidity: 45-75%RH, 18 mos. Max

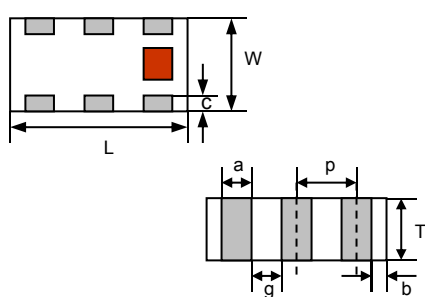
Part Number Explanation

P/N Suffix	Packaging Style*	Bulk	Suffix = S	Eg. 2450BM14A0002S
		T & R	Suffix = T	Eg. 2450BM14A0002T
Termination Style	100% Tin	Suffix = None	Eg. 2450BM14A0002(T or S)	
	Tin / Lead	Please consult Factory		

For more packaging info go to: <http://www.johansontechnology.com/ipcpackaging.html>

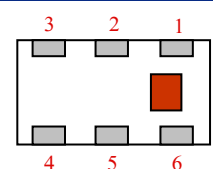
Mechanical Dimensions

	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 +.004/-0.006	0.20 +0.1/-0.15
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



Terminal Configuration

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

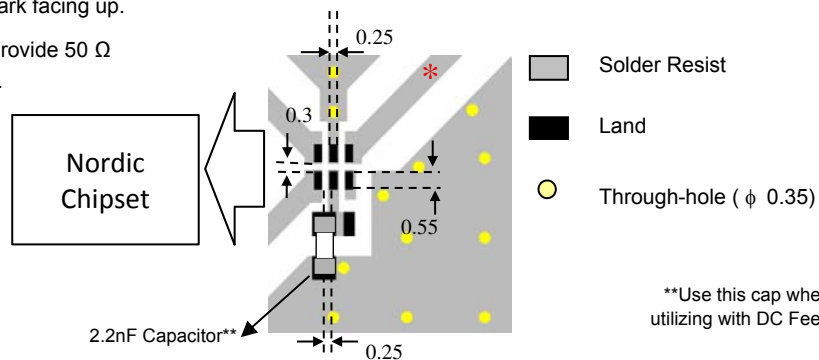


Mounting Considerations

Mount these devices with maroon mark facing up.

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

Units: mm



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High Frequency Ceramic Solutions

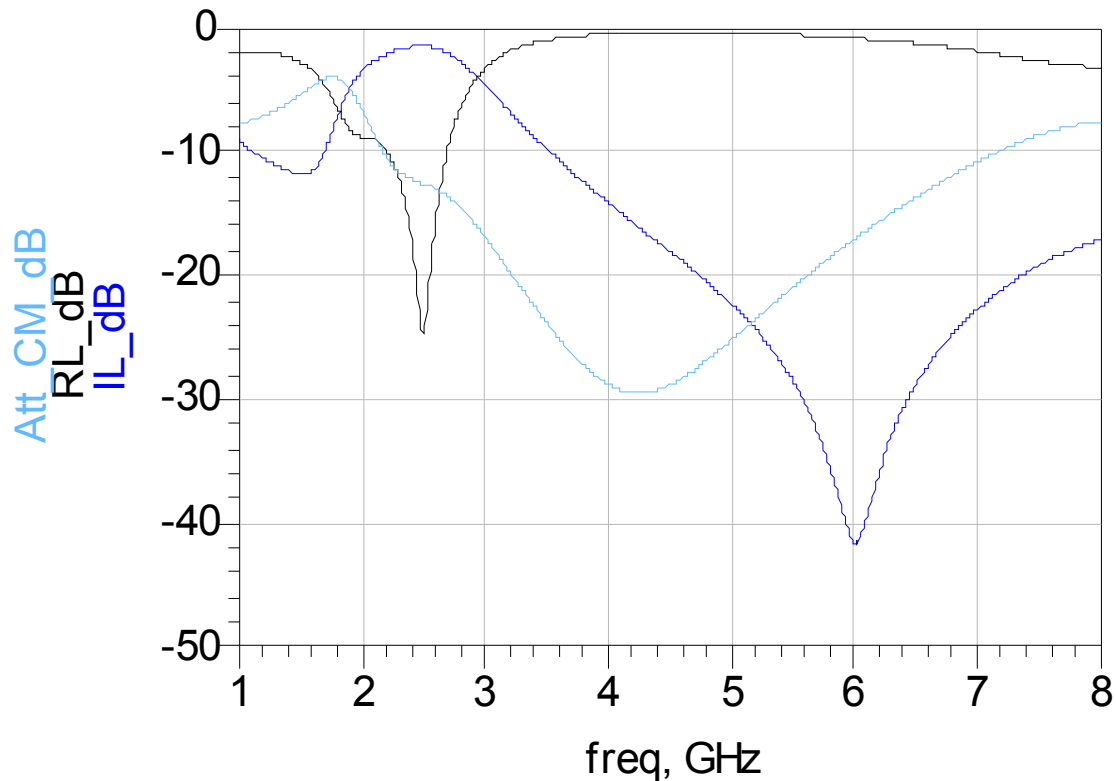
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Typical RF Electrical Performance (T=25°C)



For reference design notes and additional technical info please visit our Nordic Semiconductor dedicated page at:

<http://johansontechnology.com/nordic>

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