2.45GHz Impedance Matched Balun + Band Pass Filter: Optimized for Nordic's Chipset nRF51822 and nRF51422

P/N 2450BM14E0003

Detail Specification: 4/22/2014 Page 1 of 4

General Specifications			
Part Number	2450BM14E0003		
Frequency (MHz)	2400 - 2500		
Unbalanced Impedance	50 Ω (single ended)		
Differential Balanced Impedance	Impedance matched to Nordic nRF51XX Chipset Family		
Average Insertion Loss when connected to the nRF51XX chipset (Active OP)	0.9dB Typ@25C 1.5dB max. (-45 to +85C)		
Insertion Loss when component measured by itself (passive insertion loss)	2.1dB typ. @25C 2.5dB max. (-45 to +85C)		

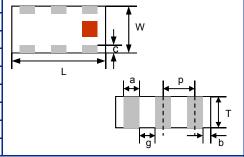


1033)			
Attenuation Different	ial mode (dB):	Return Loss (dB)	15 typ. 9.5 min.
800-928 MHz	15 typ.@25°C 10 min.	Amplitude Difference	150 ± 15deg
1200-1500 MHz	14 typ.@25°C 10 min.	Reel Quantity	4,000 pcs
4800~5000MHz	35 typ.@25°C 20 min.	Operating Temperature	-40 to +85°C
7200~7500MHz	21 typ.@25°C 18 min.	Recommended Storage Conditions for unused T&R	+5 to +35°C, Humidity: 45-
Attenuation Common mode (dB):		product	75%RH, 18 mos. Max
4800~5000MHz	44 typ.@25°C 20 min.	Power Capacity	1W max.(CW)

You can download measured s-parameters of this component at: http://johansontechnology.com/nordic

Part Number Explanation				
P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 2450BM14E0003S
		T&R	Suffix = T	Eg. 2450BM14E0003T
Guilla	Termination Style	100% Tin	Suffix = None	Eg. 2450BM14E0003(T or S)

M	Mechanical Dimensions					
		ln	mm			
L		0.063 ± 0.004	1.60 ± 0.10			
٧	I	0.031 ± 0.004	0.80 ± 0.10			
T	•	0.024 ± 0.004	0.60 ± 0.10			
а	l	0.008 ± 0.004	0.20 ± 0.10			
b	1	0.008 +.004/006	0.20 +0.1/-0.15			
С	:	0.006 ± 0.004	0.15 ± 0.10			
g	١	0.012 ± 0.004	0.30 ± 0.10			
р)	0.020 ± 0.002	0.50 ± 0.05			



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

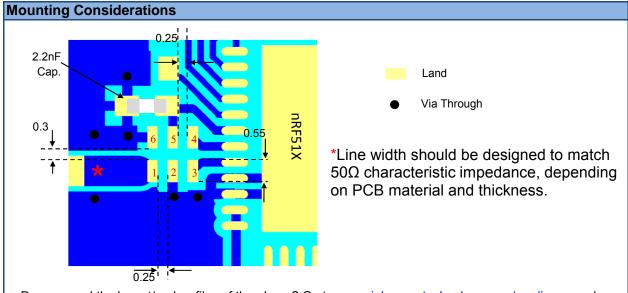
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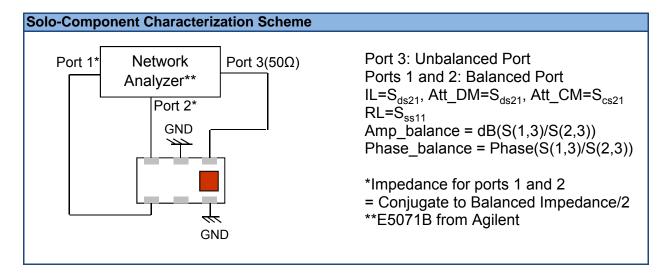
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Do you need the layout/gerber files of the above? Go to: www.johansontechnology.com/nordic or send us a message at: http://www.johansontechnology.com/component/techquestion/?Itemid=407



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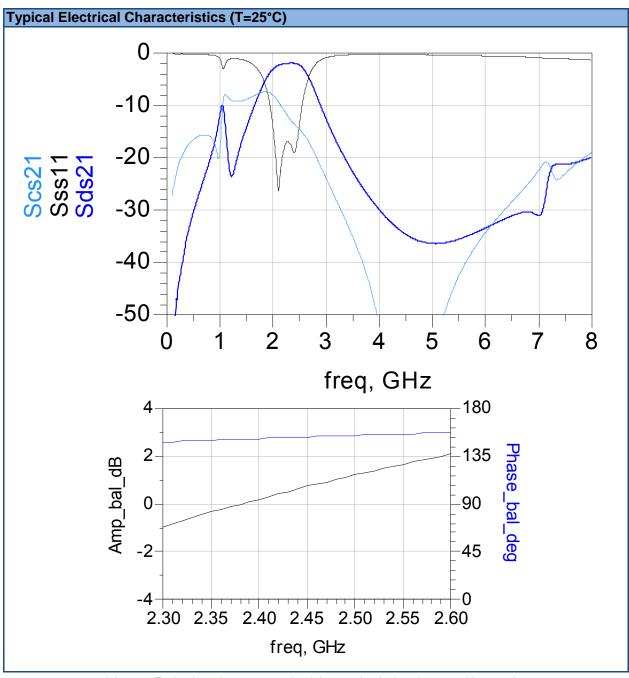
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Application Notes, Layout Files, and more

http://johansontechnology.com/nordic

Packaging information

www.johansontechnology.com/ipcpackaging.html

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

Recommneded Storage Condition and Max Shelf Life

www.johansontechnology.com/ipcstorage-shelflife

RoHS Compliance

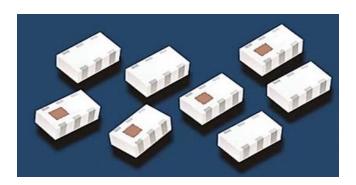
www.johansontechnology.com/technical-notes/rohs-compliance.html

Antenna layout and tuning techniques

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipcantennaservices



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