



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

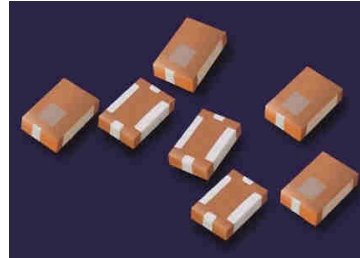
2.4GHz Band Pass Filter, EIA 0603

P/N 2450BP14D0100

Detail Specification: 10/18/2017

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Specifications	
Part Number	2450BP14D0100
Frequency (MHz)	2400 ~ 2500
Impedance (Ohm)	50
Insertion Loss (dB)	1.5 typ. / 1.7 max.
Return Loss	9.5 dB min.



Frequency	Attenuation (dB)	Reel Quantity	Operating Temperature
880 ~ 915MHz	35 typ. / 30 min.	4,000	-40 to +85°C
1710 ~ 1785MHz	35 typ. / 30 min.		
1850 ~ 1910MHz	27 typ. / 25 min.	Storage Temperature	-40 to +85°C
4800 ~ 5000MHz	30 typ. / 25 min.	Storage Period	18 months max.*
7200 ~ 7500MHz	23 typ. / 15 min.	Solder Paste	SAC 305 type recommended
Power Capacity	2W max. (CW)		

*18 months in vacuum sealed bag and 1 week after opened. Please keep unused parts in vacuum sealed bags.

For more info go to www.johansontechnology.com/silverleads.

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 2450BP14D0100S
		T & R	Suffix = E	eg. 2450BP14D0100T
Evaluation Board		2450BP14D0100-EB1SMA (2 Female SMA connectors 50Ω)		

Mechanical Specifications		
	In	mm
L	0.063 ± 0.004	1.60 ± 0.10
W	0.031 ± 0.004	0.80 ± 0.10
T	0.024 ± 0.004	0.60 ± 0.10
a	0.028 ± 0.006	0.70 ± 0.15
b	0.012 ± 0.004	0.30 ± 0.10
c	0.006 ± 0.004	0.15 ± 0.10
d	0.018 ± 0.006	0.45 ± 0.15

Terminal Configuration			
No.	Function	No.	Function
1	GND	3	GND
2	IN/OUT	4	IN/OUT

Want the layout file of the component above or would like us to help you review your layout? Send us a message at:

www.johansontechnology.com/ask-a-question

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Ver. 2.0

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High Frequency Ceramic Solutions

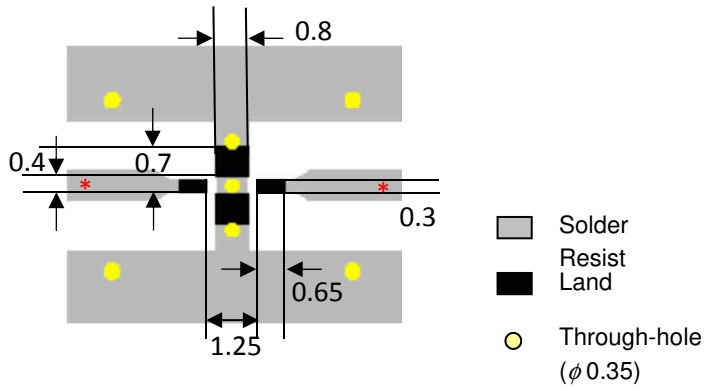
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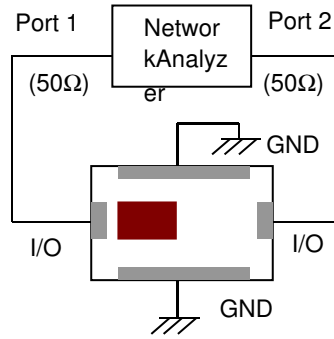
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Mounting Considerations

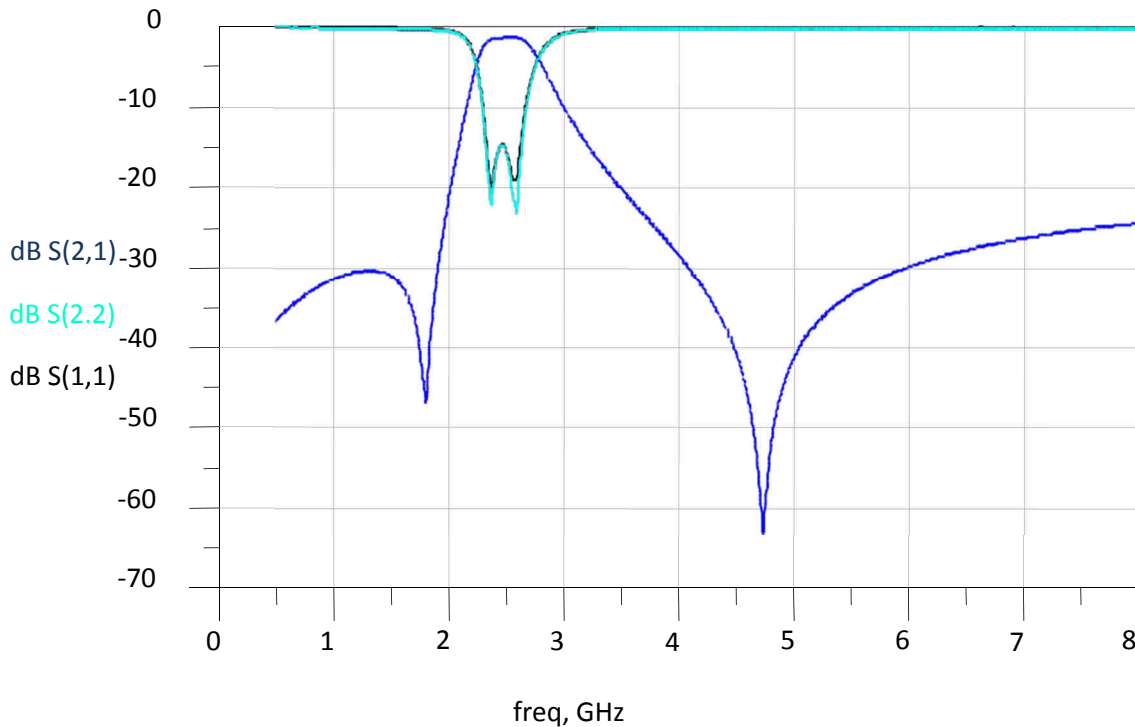


* Line width should be designed to match 50 ohm characteristic impedance, depending on PCB material and thickness.

Measuring Diagram



Electrical Characteristics (T=25°C)



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More BPF info such as measured s-parameters and ordering details at:

www.johansontechnology.com/band-pass-filters

Packaging information

www.johansontechnology.com/downloads/Integrated_Passive_Component_Packaging.pdf

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

MSL Info

www.johansontechnology.com/msl-rating

Recommended Storage Condition and Max Shelf Life

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