

"High Frequency Ceramic Solutions"

2.45GHz WLAN/Bluetooth EIA 0603 High Rejection Band Pass Filter with bottom terminations for reduced footprint

P/N 2450BP14F0100

Detail Specification: 5/10/2017

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General Specifications

Part Number	2450BP14F0100	Reel Quantity	4,000
Frequency (MHz)	2400 ~ 2500	Operating Temperature	-40 to +85°C
Insertion Loss @ BW(dB)	2.5max. (25°C) 2.8max. (-40 to +85)	Recommended Storage Conditions	+5 to +35°C, 45~75%RH
Return Loss @ BW(dB)	10 min.	Storage Period	18 months max.*
Attenuation (db)	40 dB @ < 880~915	Power Capacity	2W max. (CW)
	40 dB @ < 1710~1850	Solder Paste	SAC 305 type is recommended
	40 dB @ < 1850~1910		
	40 dB @ < 1920~1990		
	25 dB @ < 2110~2170		
	30 dB @ < 4800~5000		
	20 dB @ < 7200~7500		

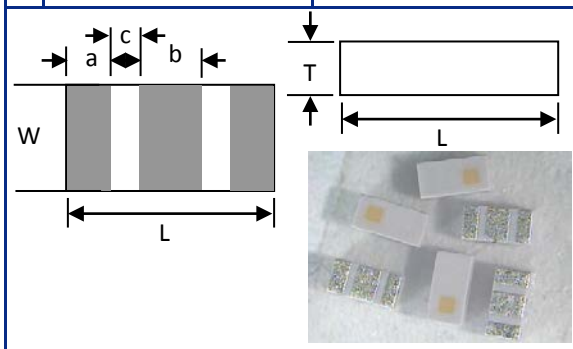
*18 months in vacuum sealed bag and 1 week cumulative after opened. For more info:
<https://www.johansontechnology.com/silverleads>

Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	eg. 2450BP14F0100S
		T & R	Suffix = T	eg. 2450BP14F0100T
	Termination style	100% Tin	Suffix = None	eg. 2450BP14F0100 (T or S)
	Evaluation Board 2-port SMA. 50Ω			2450BP14F0100-EB1SMA

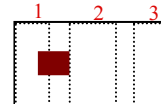
Mechanical Dimensions

	In	mm
L	0.063 ± 0.006	1.60 ± 0.15
W	0.031 ± 0.006	0.80 ± 0.15
T	0.024 max.	0.6 max.
a	0.014 ± 0.004	0.35 ± 0.10
b	0.020 ± 0.004	0.50 ± 0.10
c	0.008 + 0.002	0.20 + 0.05

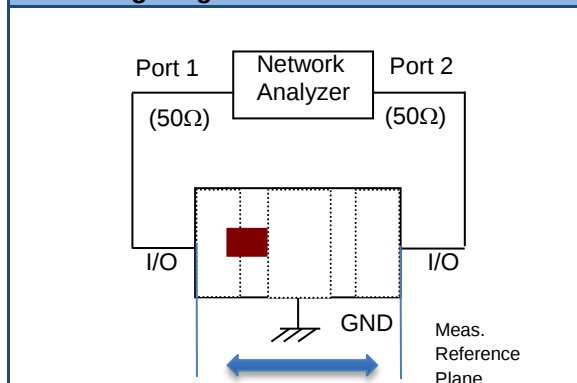


Terminal Configuration

No.	Function
1	IN
2	GND
3	OUT



Measuring Diagram



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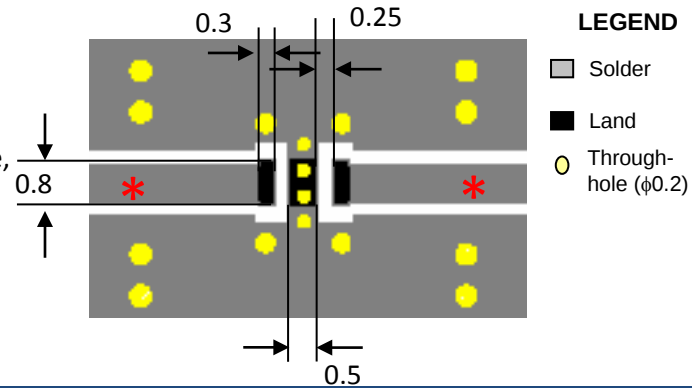
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Mounting Considerations

Mount these devices with brown mark facing up.

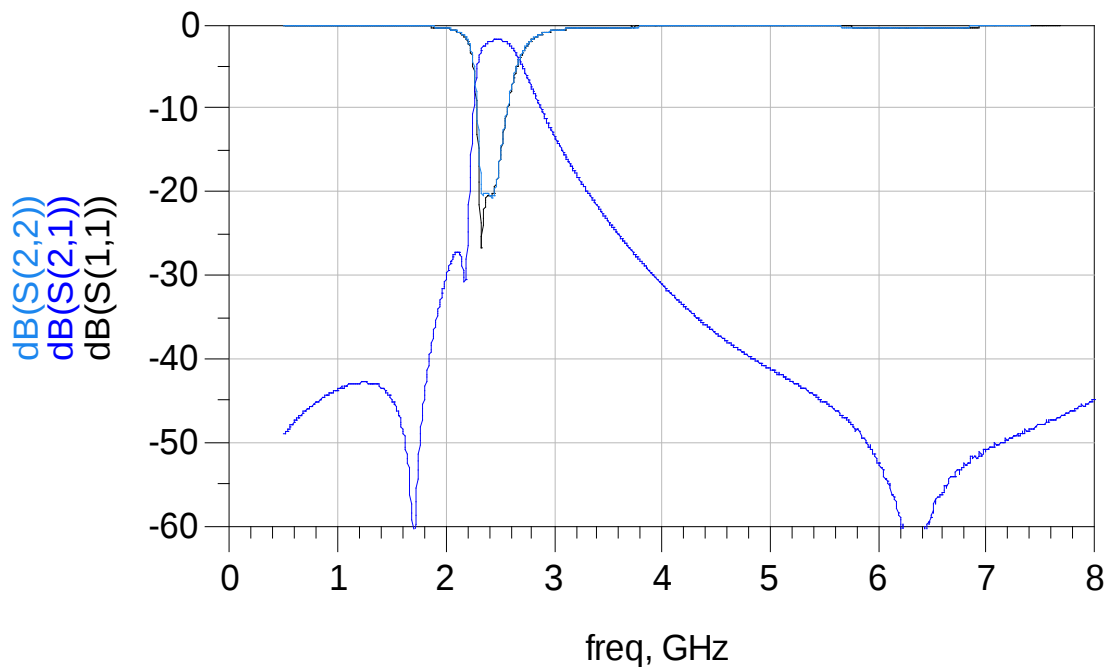
*Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

Units: mm



Soldering Profile: <http://johansontechnology.com/ipcsoldering-profile>

Typical Electrical Performance (T=25°C)



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RoHS Compliance

www.johansontechnology.com/rohs-compliance

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

Layout Files, s-parameters and any other technical questions

www.johansontechnology.com/ask-a-question

MSL Info

www.johansontechnology.com/msl-rating

Recommended Storage Condition and Max Shelf Life

www.johansontechnology.com/recommended-storage-conditions

Antenna layout and tuning techniques

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

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