

# High Frequency Ceramic Solutions


**2.45GHz Mini (EIA 0504) Passive Band Pass Filter, LGA pads, SMD**

**P/N 2450BP08A0100**

Detail Specification: 1/31/2017

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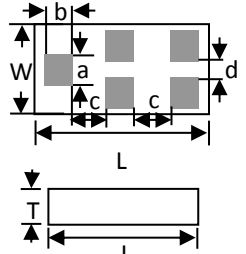
## General Specifications

<b>Part Number</b>	2450BP08A0100		<b>Recommended Storage Conditions for unused T&amp;R Product*</b>	+5 ~ +35°C, Humidity: 45~75%RH
<b>Frequency (MHz)</b>	2400 ~ 2500			
<b>Insertion Loss (dB)</b>	1.0 max. @ 25°C			
<b>Return Loss</b>	9.0 dB min.			
<b>Attenuation (min.)</b>	15 min. @ 5 ~ 960MHz			
<b>Attenuation (min.)</b>	10 min. @ 1710 ~ 1990MHz			
<b>Attenuation (min.)</b>	15 min. @ 3600MHz			
<b>Attenuation (min.)</b>	25 min. @ 4800 ~ 7200MHz			
<b>Reel Quantity</b>	4,000		<b>Solder Paste</b>	SAC 305 type is recommended.
<b>Operating/Strge Temp.</b>	-40 to +85°C		<b>Power Capacity</b>	2W max.(CW)
<b>Storage Period</b>	18 months max.*			

\*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](http://www.johansontechnology.com/silverleads).

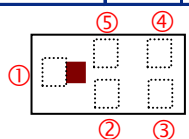
<b>P/N Suffix</b>	<b>Packing Style</b>	Bulk	Suffix = S	eg. 2450BP08A0100S
		T & R	Suffix = T	eg. 2450BP08A0100T
	<b>Evaluation Board</b>	2450BP08A0100-EB1SMA		

## Mechanical Specifications

	In	mm	
L	0.055 ± 0.006	1.40 ± 0.15	
W	0.043 ± 0.006	1.10 ± 0.15	
T	0.024 max.	0.6 max	
a	0.013 ± 0.004	0.33 ± 0.10	
b	0.010 ± 0.004	0.25 ± 0.10	
c	0.010 ± 0.002	0.25 ± 0.05	
d	0.010 ± 0.002	0.25 ± 0.05	

## Terminal Configuration

No.	Function	No.	Function
1	IN/OUT	4	IN/OUT
2	GND	5	GND
3	GND		



Want the layout file of the above? Send us a message at: [www.johansontechnology.com/component/techquestion](http://www.johansontechnology.com/component/techquestion)

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Ver. 1.1

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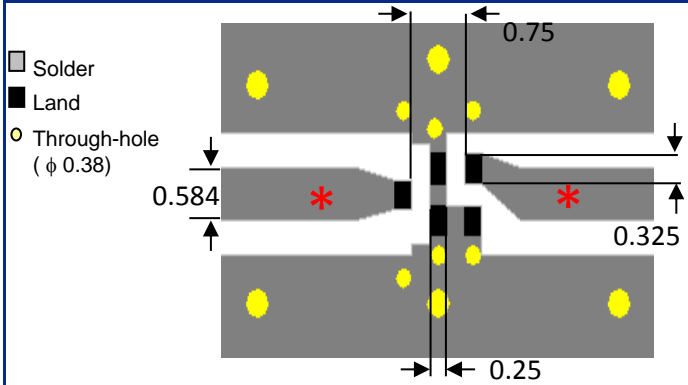
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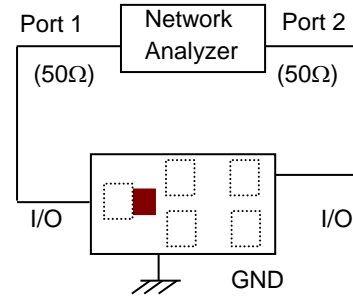
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## Mounting Considerations

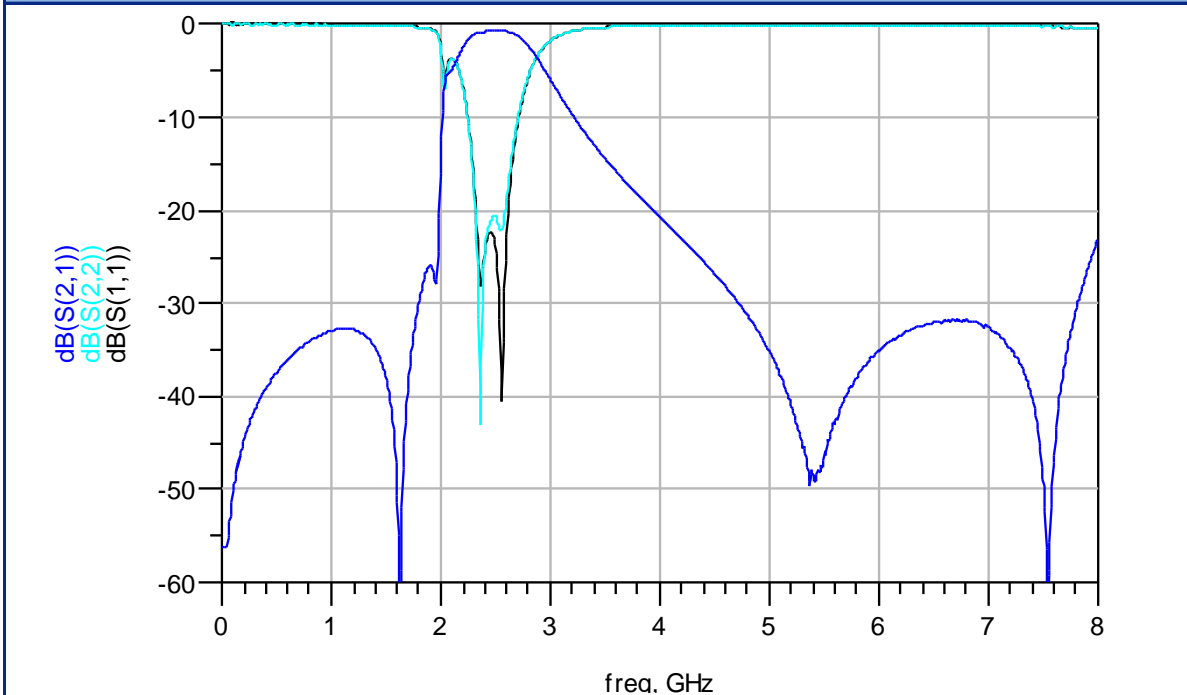


\* Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.  
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## Measuring Diagram



## Electrical Characteristics (T=25°C)



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## More Band Pass Filters

[www.johansontechnology.com/band-pass-filters](http://www.johansontechnology.com/band-pass-filters)

## Packaging information

[www.johansontechnology.com/tape-reel-packaging](http://www.johansontechnology.com/tape-reel-packaging)

## Soldering Information

[www.johansontechnology.com/ipcsoldering-profile](http://www.johansontechnology.com/ipcsoldering-profile)

## MSL Info

[www.johansontechnology.com/msl-rating](http://www.johansontechnology.com/msl-rating)

## Recommended Storage Condition and Max Shelf Life

[www.johansontechnology.com/recommended-storage-conditions](http://www.johansontechnology.com/recommended-storage-conditions)

## RoHS Compliance

[www.johansontechnology.com/technical-notes/rohs-compliance](http://www.johansontechnology.com/technical-notes/rohs-compliance)

## Antenna layout and tuning techniques

[www.johansontechnology.com/tuning](http://www.johansontechnology.com/tuning)

## Antenna layout review, tuning, and characterization services

[www.johansontechnology.com/ipc-antenna-services](http://www.johansontechnology.com/ipc-antenna-services)

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