

High Frequency Ceramic Solutions

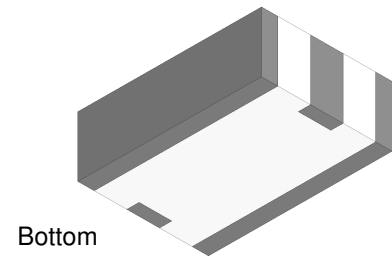
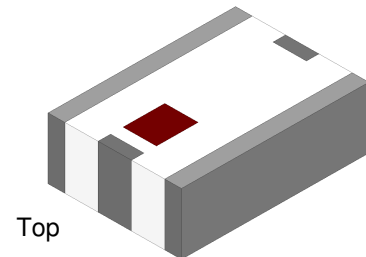
2.15GHz Band Pass Filter, SMD, Low Loss and High Attenuation

P/N 2150BP39A0100

Detail Specification: 4/6/2022

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General Specifications	
Part Number	2150BP39A0100
Operating Frequency (MHz)	2100 - 2200
Insertion loss (dB)	3.2 max.
Return Loss (dB)	9.5 min.
Attenuation (dB)	18 min. @ 1950 MHz 18 min. @ 2360 MHz
Power Capacity (W)	3 max. (CW)
Operating Temperature	-40 to +85°C
Recommended Storage Conditions and Period for unused Product on T&R	+5 to +35°C Humidity 45 - 75% RH 18 months max.
Reel Quantity (pcs./reel)	3,000



You can download measured s-parameters of this component at: <https://www.johansontechnology.com/band-pass-filters>

Part Number Explanation				
P/N Suffix	Packaging Style	Bulk (loose pcs.)	Suffix = S	E.g. 2150BP39A0100S
		T & R	Suffix = E	E.g. 2150BP39A0100E
	Evaluation Board	50Ω SMA	Suffix = EB-SMA	E.g. 2150BP39A0100-EB-SMA

Mechanical Dimensions		
	In	mm
L	0.098 ± 0.008	2.50 ± 0.20
W	0.079 ± 0.008	2.00 ± 0.20
T	0.035 ± 0.004	0.90 ± 0.10
a	0.012 ± 0.008	0.30 ± 0.20
b	0.024 ± 0.008	0.60 ± 0.20
c	0.012 ± 0.008	0.30 ± 0.20

Terminal Configuration	
No.	Function
1	GND
2	INPUT / OUTPUT
3	GND
4	INPUT / OUTPUT

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Ver. 2.0

<https://www.johansontechnology.com>

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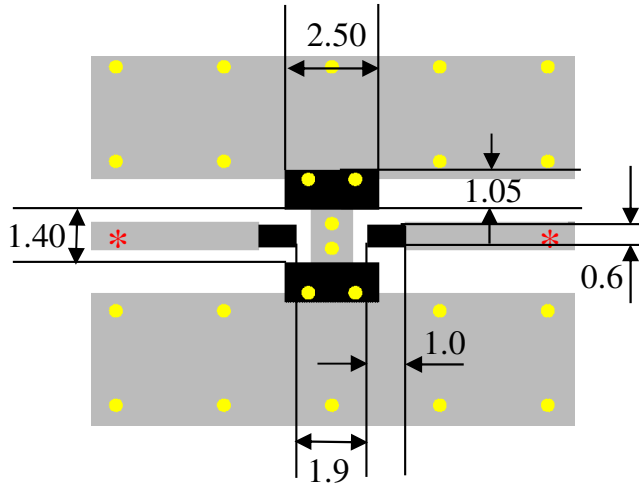
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Mounting Considerations


Mount these devices with brown mark facing up.



Units in mm

 Solder Resist

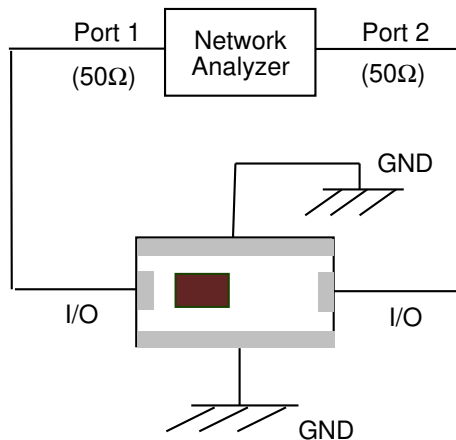
 Land

 Through-hole ($\phi 0.35$)

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

Would you like the layout? Send us a message at: <https://www.johansontechnology.com/ask-a-question>

Measuring Diagram



Port 1: Filter IN/OUT
Port 2: Filter IN/OUT

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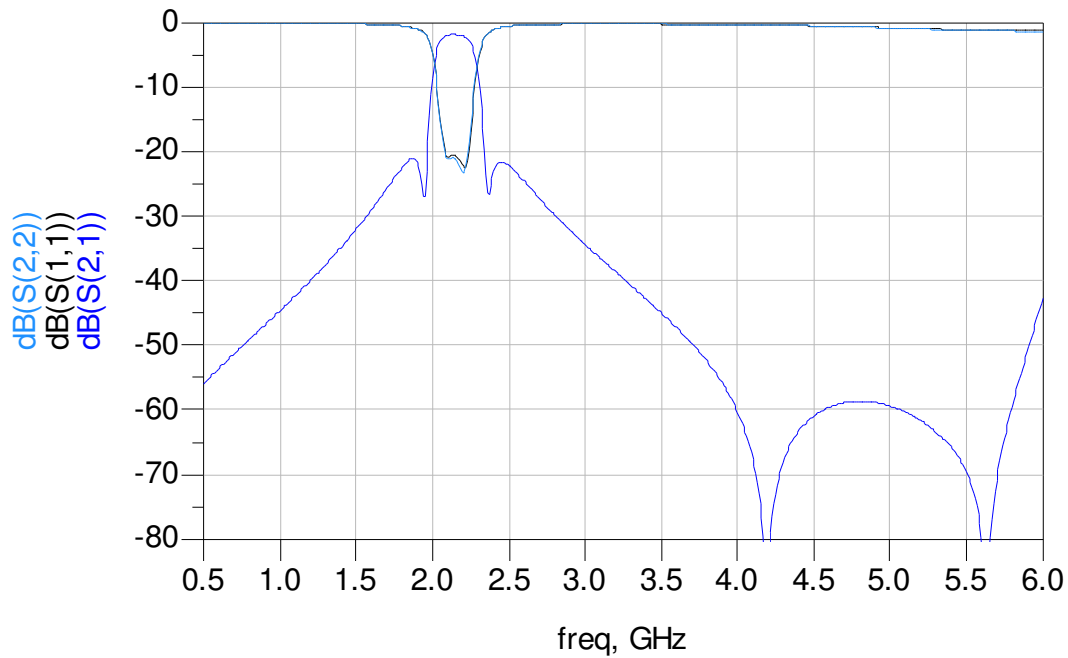
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Typical Electrical Characteristics (T=25°C)

Insertion Loss & Return loss



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Application Notes, Layout Files, and more

<https://www.johansontechnology.com/band-pass-filters>

Packaging information

<https://www.johansontechnology.com/tape-reel-packaging>

Soldering Information

<https://www.johansontechnology.com/ipcsoldering-profile>

MSL Info

<https://www.johansontechnology.com/msl-rating>

Recommended Storage Condition and Max Shelf Life

<https://www.johansontechnology.com/recommended-storage-conditions>

RoHS Compliance

<https://www.johansontechnology.com/rohs-compliance>

Antenna layout and tuning techniques

<https://www.johansontechnology.com/tuning>

Antenna layout review, tuning, and characterization services

<https://www.johansontechnology.com/ipc-antenna-services>

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