

High Frequency Ceramic Solutions

2.45GHz Band Pass Filter

P/N 2450BP39D100C

Detail Specification: 12/14/2015

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General Specifications

Part Number	2450BP39D100C	Attenuation (min.)	30 dB @ 880 - 915 MHz
Frequency (MHz)	2400~2500	Attenuation (min.)	30 dB @ 1710 - 1785 Mhz
Insertion Loss	1.2 dB max.	Attenuation (min.)	25 dB @ 1850 - 1910 MHz
Return Loss	9.5 dB min.	Attenuation (min.)	25 dB @ 4800 - 5000 MHz
Impedance	50 Ω	Attenuation (min.)	15 dB @ 7200 - 7500 MHz
Input Power	500 mW max.	Storage Temperature	-55 to +85°C
Operating Temperature	-55 to +85°C	Reel Quantity	3,000

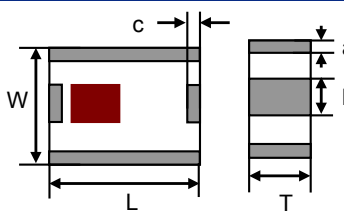
You can download measured s-parameters of this component at: <http://www.johansontechnology.com/band-pass-filters>

Part Number Explanation

P/N Suffix	Termination style	AgPt	Suffix = None	Eg. 2450BP39D100C
		Tin / Lead	Suffix = /Pb	Eg. 2450BP39D100C/Pb

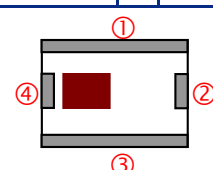
Mechanical Dimensions

	In	mm
L	0.098 ± 0.008	2.50 ± 0.20
W	0.079 ± 0.008	2.00 ± 0.20
T	0.037 ± 0.004	0.95 ± 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

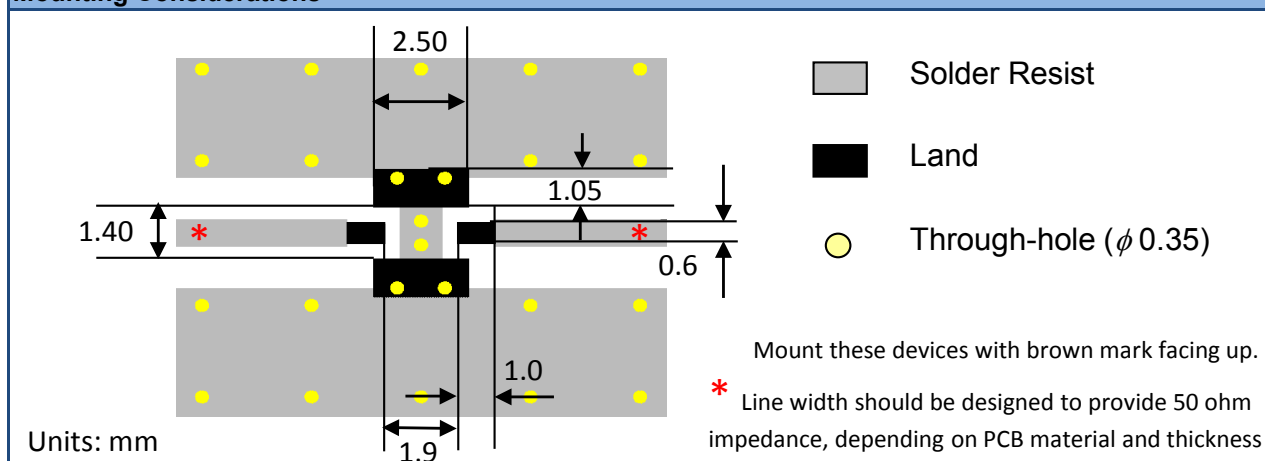


Terminal Configuration

1	GND	3	GND
2	OUT	4	IN



Mounting Considerations



Units: mm

Legend:

- Solder Resist
- Land
- Through-hole (ϕ 0.35)

Mount these devices with brown mark facing up.
* Line width should be designed to provide 50 ohm impedance, depending on PCB material and thickness

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Typical Electrical Performance (T=25°C)



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More Band Pass Filter info at:

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

Packaging information

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

Soldering Information

<http://www.johansontechnology.com/typical-soldering-profile>

MSL Info

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

Recommended Storage Condition and Max Shelf Life

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

RoHS Compliance

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

Layout review services

<http://www.johansontechnology.com/ask-a-question>

Antenna layout review, tuning, and characterization services

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

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