

# "High Frequency Ceramic Solutions"

## 3.96 GHz Band Pass Filter

**P/N 3960BP39A1584**

Detail Specification: 8/12/2019

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### General Specifications

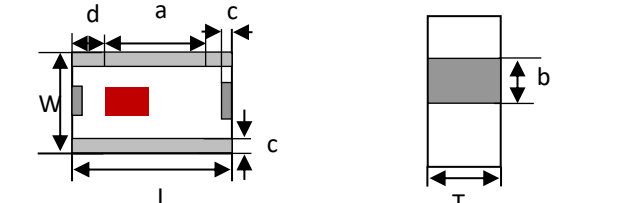
<b>Part Number</b>	3960BP39A1584	<b>Impedance</b>	50 $\Omega$
<b>Frequency (MHz)</b>	3168 - 4752	<b>Input Power</b>	3W max.
<b>Insertion Loss</b>	2.5 dB max.	<b>Operating Temperature</b>	-40 to +105°C
<b>Return Loss</b>	9.5 dB min.	<b>Recommended Storage Conditions</b>	+5 ~ +35°C, Humidity 45~75%RH, 18 mos. Max
<b>Attenuation (min.)</b>	30 dB @ 2400 - 2500 MHz	<b>Reel Quantity</b>	3,000
<b>Attenuation (min.)</b>	12 dB @ 5150 MHz		
<b>Attenuation (min.)</b>	25 dB @ 5950 MHz		

### Part Number Explanation

<b>P/N Suffix</b>	<b>Packing Style</b>	Bulk	Suffix = S	eg.3960BP39A1584S
		T & R	Suffix = T	eg. 3960BP39A1584E
		100% Tin	Suffix = None	eg.3960BP39A1584(E or S)
	<b>Termination style</b>	Tin / Lead	Suffix = /Pb	eg. 3960BP39A1584(E or S)/Pb

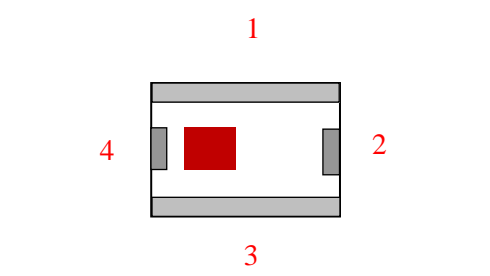
### Mechanical Dimensions

	In	mm
<b>L</b>	0.098 $\pm$ 0.008	2.50 $\pm$ 0.20
<b>W</b>	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
<b>T</b>	0.035 $\pm$ 0.004	0.90 $\pm$ 0.10
<b>a</b>	0.012 $\pm$ 0.008	0.30 $\pm$ 0.20
<b>b</b>	0.024 $\pm$ 0.008	0.60 $\pm$ 0.20
<b>c</b>	0.012 + 0.008	0.30 + 0.20



### Terminal Configuration

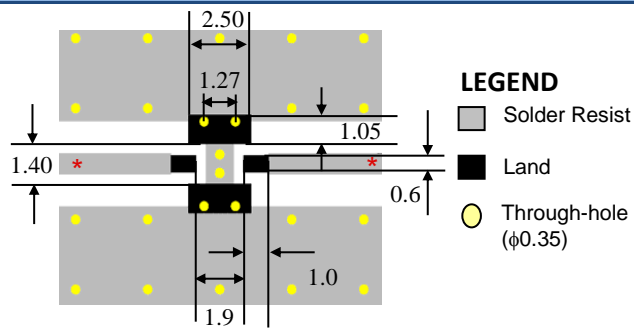
No.	Function
<b>1</b>	GND
<b>2</b>	OUT
<b>3</b>	GND
<b>4</b>	IN



### Mounting Considerations

Mount these devices with brown mark facing up.

\*Line width should be designed to provide 50  $\Omega$  impedance matching  
Units: mm



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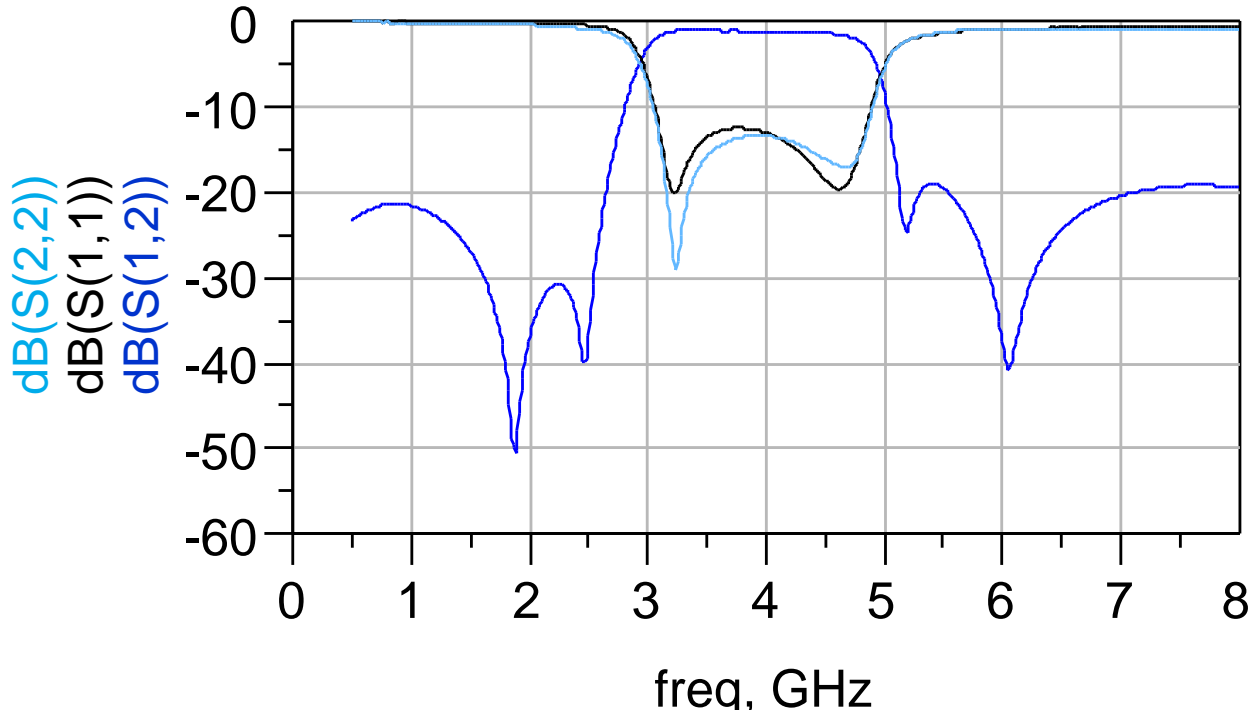
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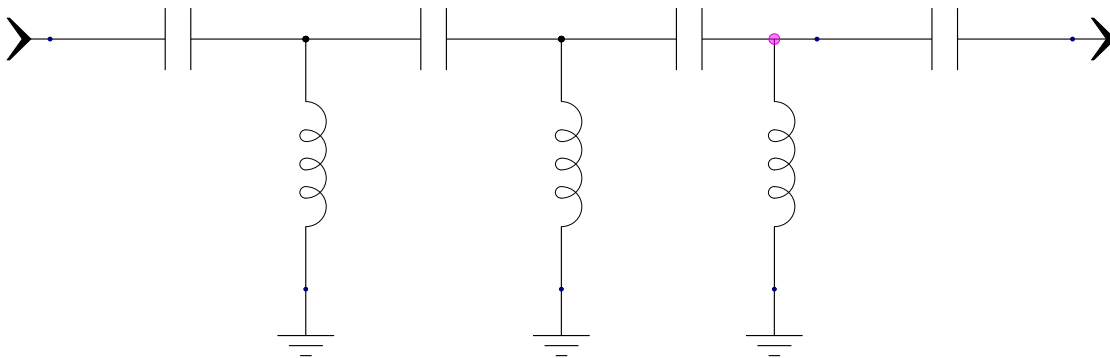
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## Typical Electrical Performance (T=25°C)



Internal DC block embedded in component!



This is only a representation of the equivalent circuit

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## Packaging information

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

## Soldering Information

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

## RoHS Compliance

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

## MSL Info

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

## To Download Measured S-parameters for Evaluation and Simulation:

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

## For layout review contact our Applications Team at:

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

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Ver 1.2

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