

# Preliminary High Frequency Ceramic Solutions

## 2.45 GHz Band Pass Filter

P/N 2450BP15J0100

Detail Specification: 12/21/2009

Page 1 of 3

### General Specifications

<b>Part Number</b>	2450BP15J0100	
<b>Frequency (MHz)</b>	2400 - 2500	
<b>Attenuation (min.)</b>	746 - 764 MHz	25 dB
<b>Attenuation (min.)</b>	824 - 849 MHz	30 dB
<b>Attenuation (min.)</b>	869 - 960 MHz	26 dB
<b>Attenuation (min.)</b>	1570 - 1580 MHz	28 dB
<b>Attenuation (min.)</b>	1710 - 1785 MHz	23 dB
<b>Attenuation (min.)</b>	1850 ~ 1910MHz	30 dB
<b>Attenuation (min.)</b>	1930 - 1990 MHz	30 dB
<b>Attenuation (min.)</b>	2110 - 2170 MHz	30 dB
<b>Attenuation (min.)</b>	3300 - 3800 MHz	15 dB
<b>Attenuation (min.)</b>	4800 - 5000MHz	20 dB
<b>Attenuation (min.)</b>	7200 - 7500 MHz	20 dB

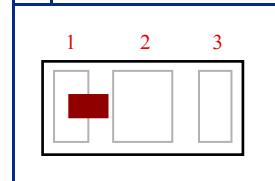
<b>Insertion Loss</b>	2.5 dB max.
<b>Return Loss</b>	10 dB min.
<b>Input Power</b>	3 Watts max.
<b>Impedance</b>	50 Ω
<b>Reel Quantity</b>	4,000
<b>Operating Temperature</b>	-30 to +85°C
<b>Storage Temperature</b>	-40 to +85°C

Note: I/O DC blocks are embedded

<b>P/N</b>	<b>Packaging</b>	Bulk	Suffix = S	Eg. 2450BP15J0100
	<b>Style</b>	T & R	Suffix = E	Eg. 2450BP15J0100E
<b>Suffix</b>	<b>Termination</b>	100% Tin	Suffix = None	Eg. 2450BP15J0100(E or S)
	<b>Style</b>	Tin / Lead	Suffix = /Pb	Eg. 2450BP15J0100(E or S)/Pb

### Terminal Configuration

No.	Function
1	IN
2	GND
3	OUT



### Mechanical Dimensions

	In	mm
<b>L</b>	0.079 ± 0.006	2.00 ± 0.15
<b>W</b>	0.049 ± 0.004	1.25 ± 0.10
<b>T</b>	0.018 ± 0.002	0.45 ± 0.05
<b>a</b>	0.037 ± 0.004	0.95 ± 0.10
<b>b</b>	0.011 ± 0.004	0.275 ± 0.10
<b>c</b>	0.024 ± 0.004	0.60 ± 0.10
<b>d</b>	0.010 ± 0.002	0.25 ± 0.05

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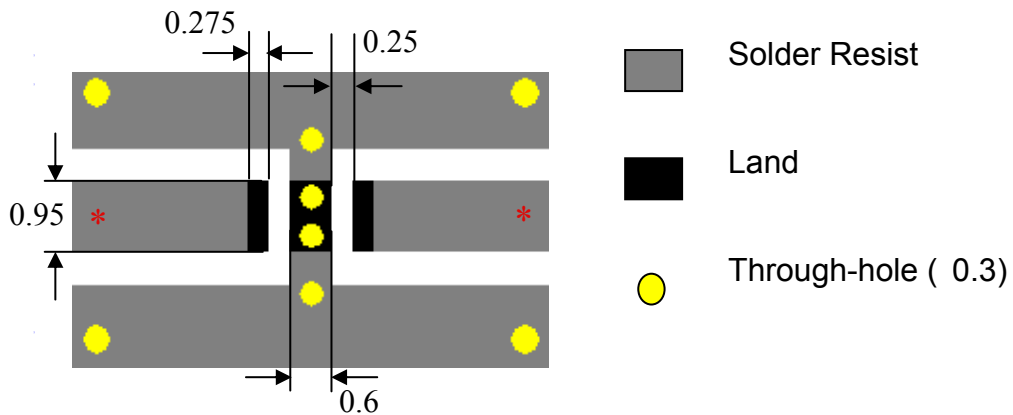
Page 2 of 3

**Mounting Considerations**

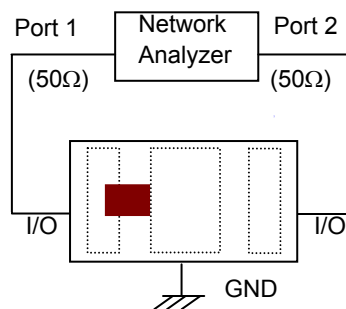
Mount these devices with brown mark facing up.

\* Line width should be designed to provide 50 Ω impedance matching characteristics.

Units: mm



**Measuring Diagram**



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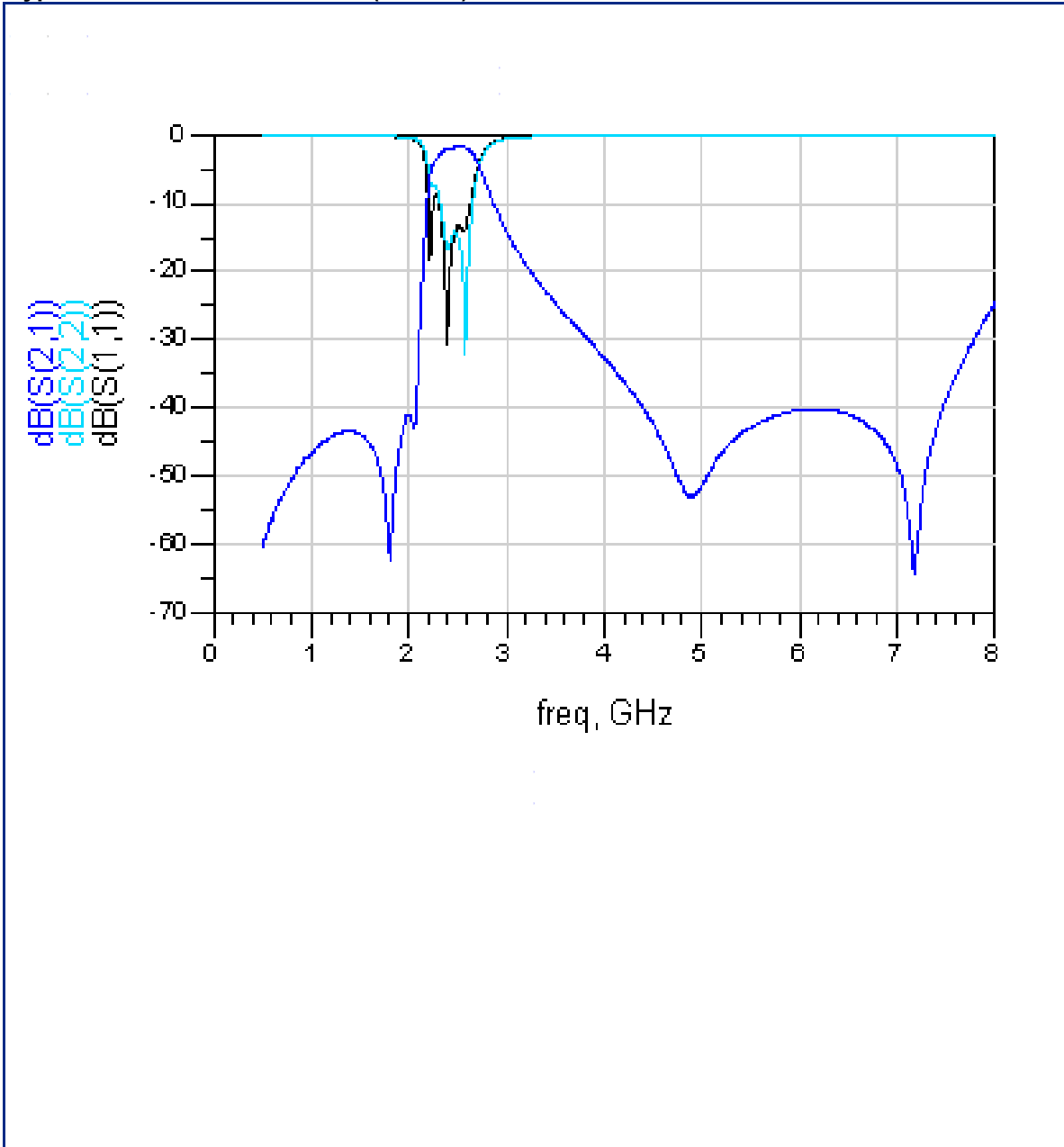
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Page 3 of 3

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



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