

Preliminary *High Frequency Ceramic Solutions*

2.45 GHz Band Pass Filter

P/N 2450BP15J0100

Detail Specification: 12/21/2009

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General Specifications

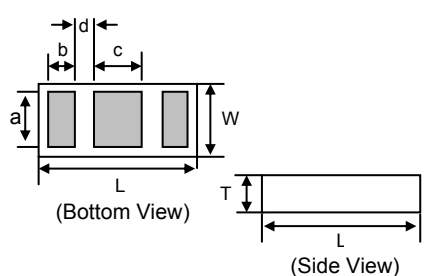
Part Number	2450BP15J0100	
Frequency (MHz)	2400 - 2500	
Attenuation (min.)	746 - 764 MHz	25 dB
Attenuation (min.)	824 - 849 MHz	30 dB
Attenuation (min.)	869 - 960 MHz	26 dB
Attenuation (min.)	1570 - 1580 MHz	28 dB
Attenuation (min.)	1710 - 1785 MHz	23 dB
Attenuation (min.)	1850 ~ 1910MHz	30 dB
Attenuation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

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

Note: I/O DC blocks are embedded

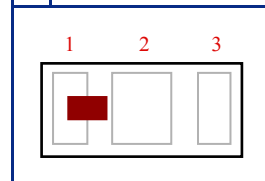
P/N	Packaging	Bulk	Suffix = S	Eg. 2450BP15J0100
	Style	T & R	Suffix = E	Eg. 2450BP15J0100E
Suffix	Termination	100% Tin	Suffix = None	Eg. 2450BP15J0100(E or S)
	Style	Tin / Lead	Suffix = /Pb	Eg. 2450BP15J0100(E or S)/Pb

Mechanical Dimensions

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

Terminal Configuration

No.	Function
1	IN
2	GND
3	OUT



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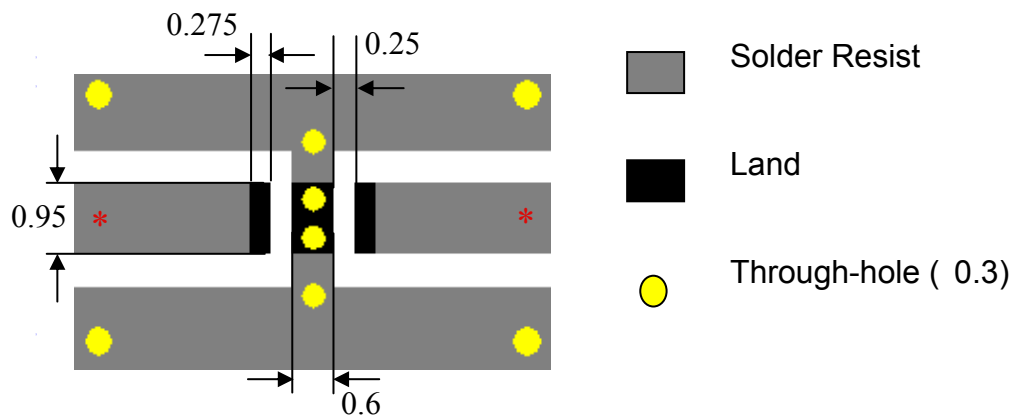
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Mounting Considerations

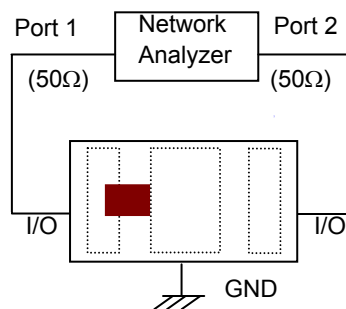
Mount these devices with brown mark facing up.

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

Units: mm



Measuring Diagram



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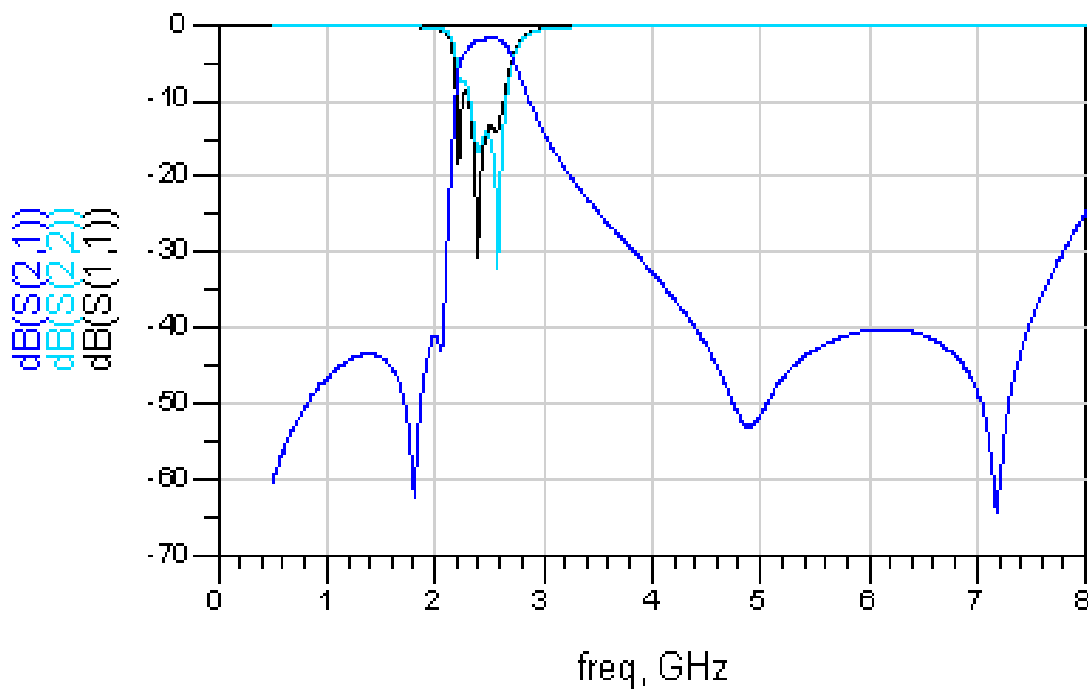
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Typical Electrical Performance (T=25°C)



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