

PRELIMINARY

2.45 GHz Band Pass Filter

P/N 2450BP39C100D

Detail Specification: 06/05/07

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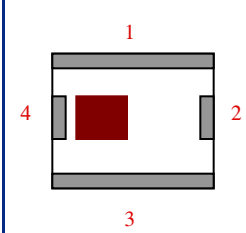
General Specifications

Part Number	2450BP39C100D	
Frequency (MHz)	2400 - 2500	
Insertion Loss	2.2 dB max.	
Return Loss	9.5 dB min.	
Attenuation (min.)	880 ~ 915MHz	30 dB
Attenuation (min.)	1710 ~ 1785MHz	30 dB
Attenuation (min.)	1850 ~ 1910MHz	25 dB
Attenuation (min.)	2100MHz	25 dB
Attenuation (min.)	4800 ~ 5000MHz	25 dB
Attenuation (min.)	7200 ~ 7500MHz	15 dB

Input Power	500 mW max.
Impedance	50 Ω
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Reel Quantity	3,000
MSL	2

Terminal Configuration

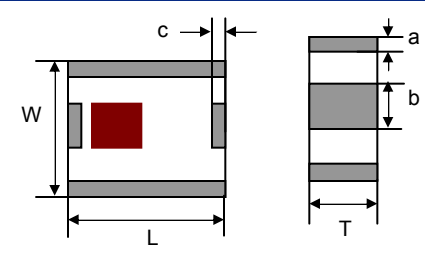
No.	Function
1	GND
2	OUT
3	GND
4	IN



A top-down schematic diagram of the filter package. It shows a central red square representing the filter. Four terminals are indicated by red numbers: 1 (top), 2 (right), 3 (bottom), and 4 (left). The terminals are connected to pads of varying sizes.

Mechanical Dimensions

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



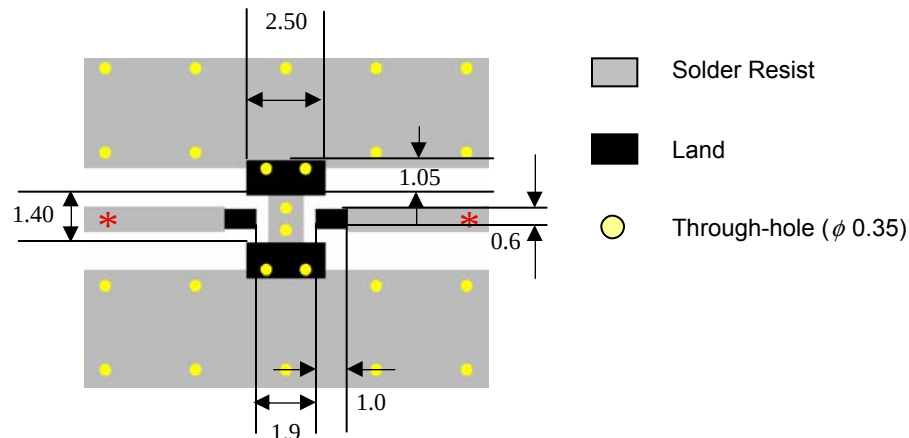
Two side-view diagrams of the filter package. The left diagram shows the overall dimensions: L (length), W (width), and T (thickness). A red square is shown on the top surface. The right diagram shows the dimensions of the top surface: a (width of the top pad), b (width of the central pad), and c (width of the bottom pad). A red square is shown on the top surface.

Mounting Considerations

Mount these devices with brown mark facing up.

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

Units: mm



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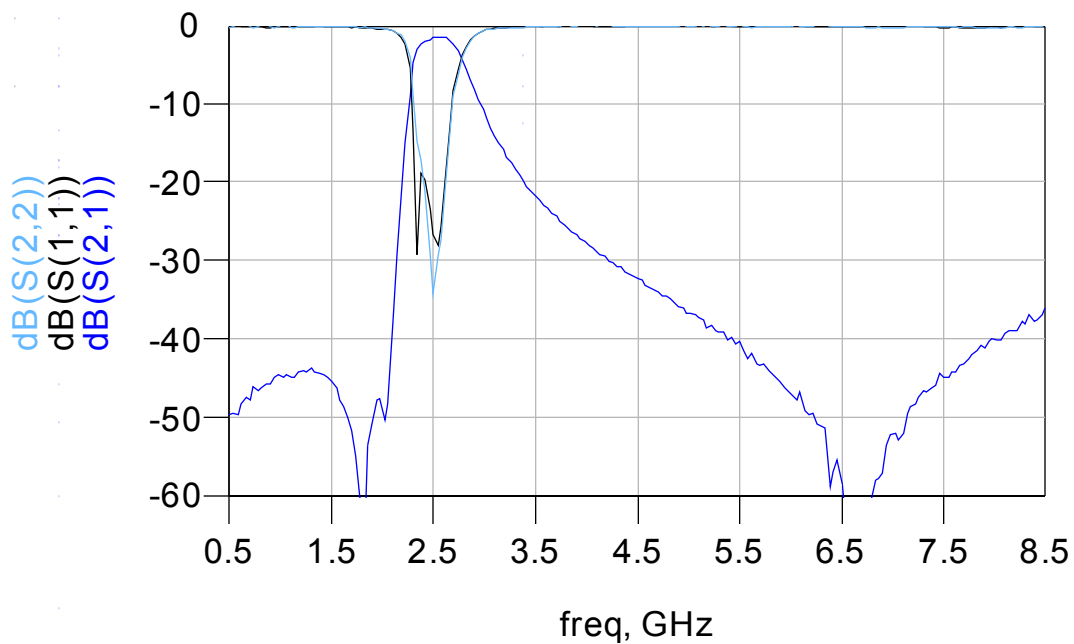
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Typical Electrical Performance (T=25°C)



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