



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# "High Frequency Ceramic Solutions"

## 2.45 GHz Band Pass Filter

P/N 2450BP39D100C

Detail Specification: 05/11/11

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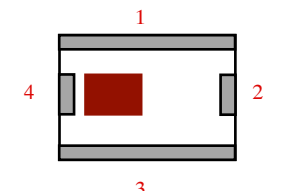
### General Specifications

|                    |                         |
|--------------------|-------------------------|
| Part Number        | 2450BP39D100C           |
| Frequency (MHz)    | 2400 - 2500             |
| Insertion Loss     | 1.2 dB max.             |
| Return Loss        | 9.5 dB min.             |
| Attenuation (min.) | 30 dB @ 880 - 915 MHz   |
| Attenuation (min.) | 30 dB @ 1710 - 1785 Mhz |
| Attenuation (min.) | 25 dB @ 1850 - 1910 MHz |
| Attenuation (min.) | 25 dB @ 4800 - 5000 MHz |
| Attenuation (min.) | 15 dB @ 7200 - 7500 MHz |

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

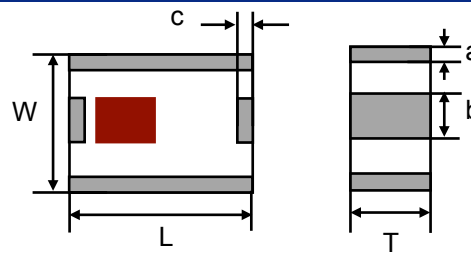
|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Termination Style | AgPt       | Suffix = "None" | eg. 2450BP39D100C    |
|                   | Tin / Lead | Suffix = "/Pb"  | eg. 2450BP39D100C/Pb |

| Terminal Configuration |          |
|------------------------|----------|
| No.                    | Function |
| 1                      | GND      |
| 2                      | OUT      |
| 3                      | GND      |
| 4                      | IN       |



### Mechanical Dimensions

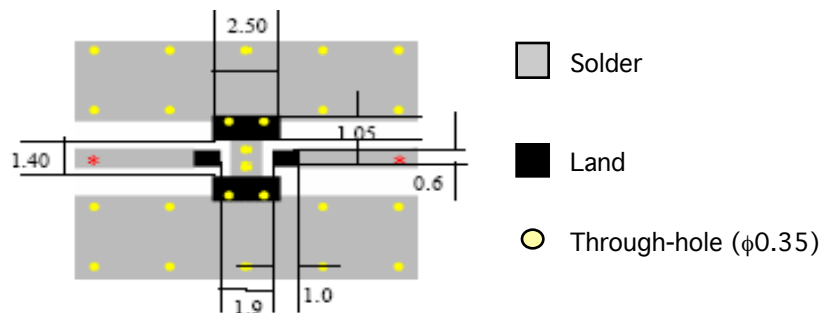
|   | In            | mm          |
|---|---------------|-------------|
| L | 0.098 ± 0.008 | 2.50 ± 0.20 |
| W | 0.079 ± 0.008 | 2.00 ± 0.20 |
| T | 0.037 ± 0.004 | 0.95 ± 0.10 |
| a | 0.012 ± 0.008 | 0.30 ± 0.20 |
| b | 0.024 ± 0.008 | 0.60 ± 0.20 |
| c | 0.012 ± 0.008 | 0.30 ± 0.20 |



### Mounting Considerations

Mount these devices with brown mark facing up.

\* Line width should be designed to provide 50 ohm impedance, depending on PCB material and thickness



Units: mm

Johanson Technology, Inc. reserves the right to make design changes without notice.  
All sales are subject to Johanson Technology, Inc. terms and conditions.

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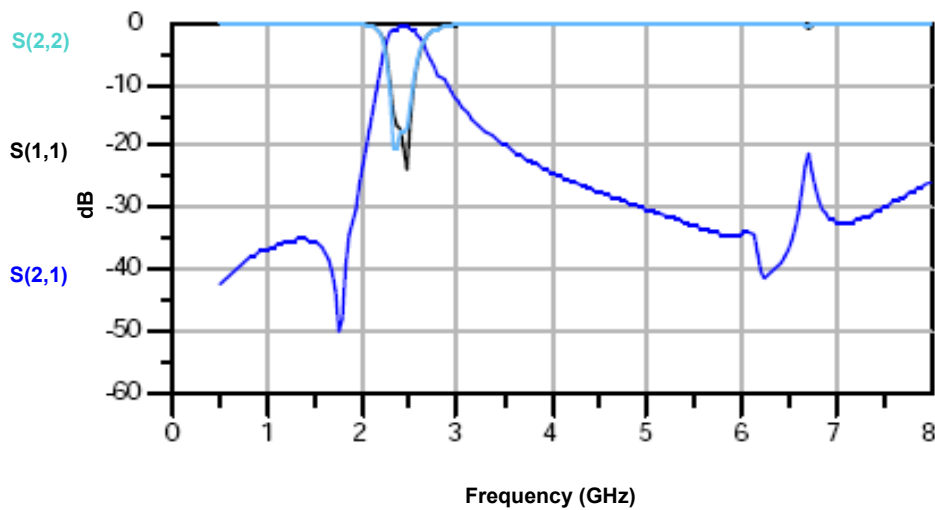
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## Typical Electrical Performance (T=25°C)



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# Mouser Electronics

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