



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

Mini 2.4GHz Band Pass Filter, EIA 0402

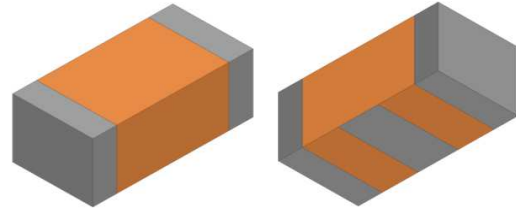
P/N 2450BP07A0100

Detail Specification: 3/22/2018

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General Specifications

| | |
|---------------------|-----------------------------|
| Part Number | 2450BP07A0100 |
| Frequency (MHz) | 2400 - 2500 |
| Impedance (Ohm) | 50 |
| Insertion Loss (dB) | 1.9 typ. / 2.5 max. |
| Return Loss (dB) | 9.5 min. |
| Reel Quantity | 10,000 |
| Solder Paste | SAC 305 type is recommended |



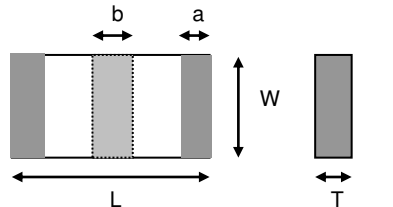
| Frequency | Attenuation (dB) | Operating Temperature | -40 to +85°C |
|----------------|-------------------|--|---|
| 824 - 960MHz | 28 typ. / 25 min. | Recommended Storage Conditions and Period for unused T&R Product | +5 to +35°C Humidity 45 - 75% RH 18 months max. |
| 1710 - 1910MHz | 27 typ. / 25 min. | | |
| 4800 - 5000MHz | 30 typ. / 25 min. | Power Capacity | 500mW max. (CW) |
| 7200 - 7500MHz | 20 typ. / 15 min. | | |

*18 months in vacuum sealed bag and 1 week after opened. Please keep unused parts in vacuum sealed bags.
For more info go to www.johansontechnology.com/silverleads.

| P/N Suffix | Packing Style | Bulk | Suffix = S | eg. 2450BP07A0100S |
|------------------|---------------|--|------------|--------------------|
| | | T & R | Suffix = T | eg. 2450BP07A0100T |
| Evaluation Board | | 2450BP07A0100-EB1SMA (2 Female SMA connectors 50Ω) | | |

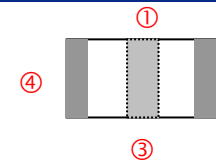
Mechanical Specifications

| | In | mm |
|---|---------------|-------------|
| L | 0.039 ± 0.002 | 1.00 ± 0.05 |
| W | 0.020 ± 0.002 | 0.50 ± 0.05 |
| T | 0.015 ± 0.002 | 0.38 ± 0.05 |
| a | 0.006 ± 0.004 | 0.15 ± 0.10 |
| b | 0.010 ± 0.004 | 0.25 ± 0.10 |



Terminal Configuration

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



Want the layout file of the above? Send us a message at: www.johansontechnology.com/ask-a-question

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High Frequency Ceramic Solutions

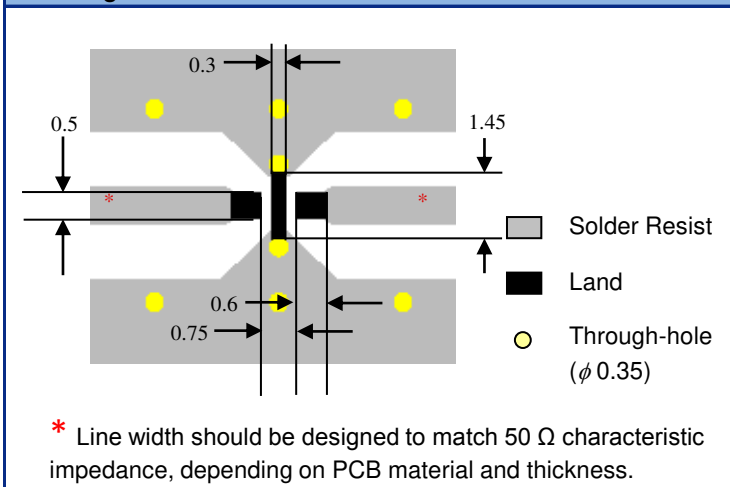
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P/N 2450BP07A0100

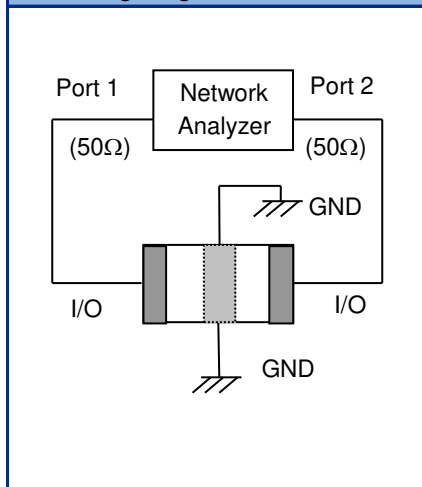
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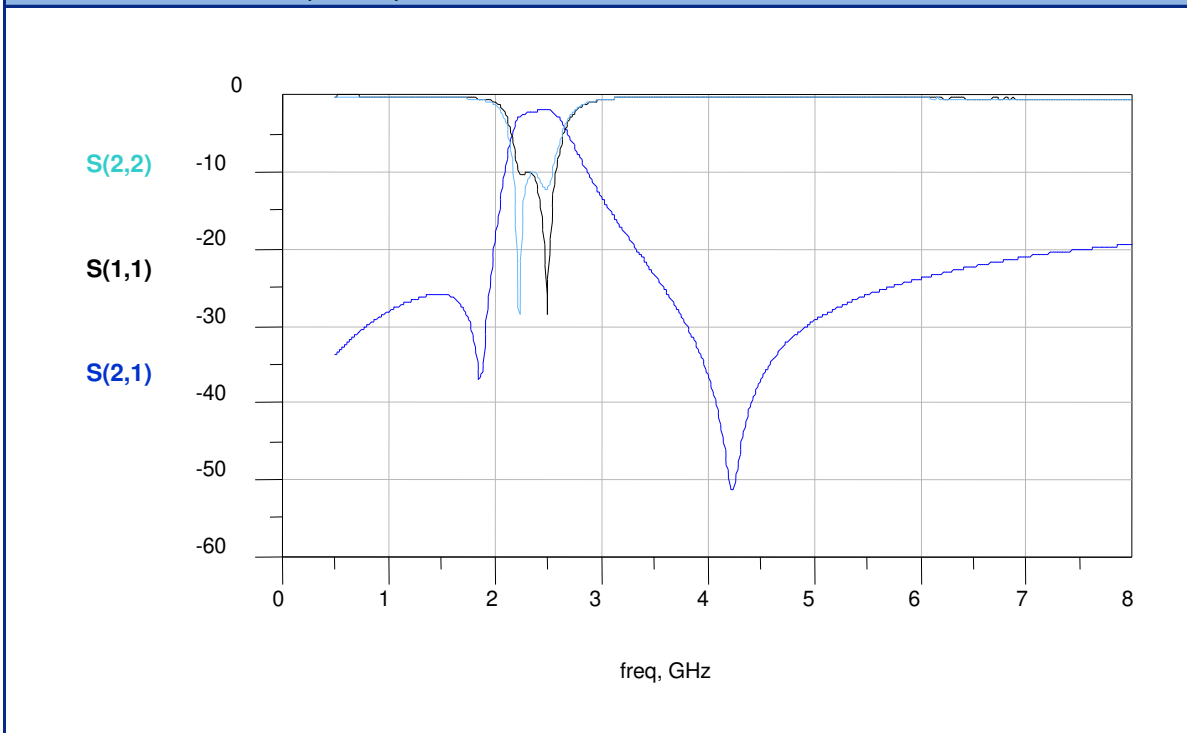
Mounting Considerations



Measuring Diagram



Electrical Characteristics (T=25°C)



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More BPF info such as measured s-parameters and ordering details at:

www.johansontechnology.com/band-pass-filters

Packaging information

www.johansontechnology.com/tape-reel-packaging

Soldering Information

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