

"High Frequency Ceramic Solutions"

5.5 GHz Band Pass Filter

P/N 5515BP15B725

Detail Specification: 12/5/2012

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General Specifications

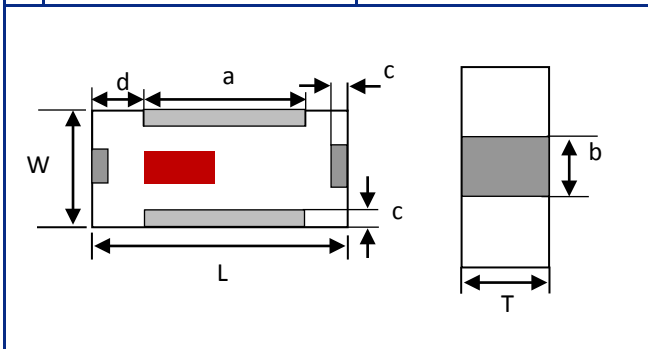
| | | | |
|--------------------|--------------------------|-----------------------|--------------|
| Part Number | 5515BP15B725 | Insertion Loss | 1.5 dB max. |
| Frequency (MHz) | 5150 - 5875 | Return Loss | 9.5 dB min. |
| Attenuation (min.) | 30 dB @ 3500 MHz | Impedance | 50 Ω |
| Attenuation (min.) | 25 dB @ 9800 - 11840 MHz | Input Power | 2W max. (CW) |
| Attenuation (min.) | 5 dB @ 14700 - 17760 MHz | Operating Temperature | -40 to +85°C |

Part Number Explanation

| | | | | |
|-------------------------|-------------------|---------------------|---------------|-----------------------------|
| P/N Suffix | Packing Style | Bulk | Suffix = S | eg. 5515BP15B725S |
| | | T & R | Suffix = T | eg. 5515BP15B725E |
| | | 100% Tin | Suffix = None | eg. 5515BP15B725(E or S) |
| | Termination style | Tin / Lead | Suffix = /Pb | eg. 5515BP15B725(E or S)/Pb |
| Eval board (50 ohm SMA) | | 5515BP15B725-EB-SMA | | |

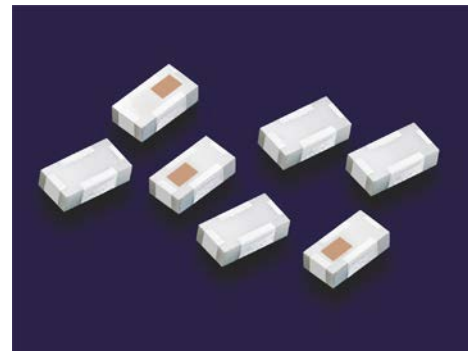
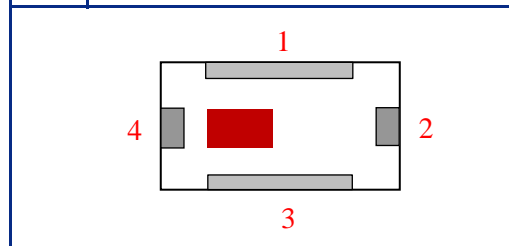
Mechanical Dimensions

| | In | mm |
|---|---------------|-------------|
| L | 0.079 ± 0.006 | 2.00 ± 0.15 |
| W | 0.049 ± 0.004 | 1.25 ± 0.10 |
| T | 0.037 ± 0.004 | 0.95 ± 0.10 |
| a | 0.051 ± 0.006 | 1.30 ± 0.15 |
| b | 0.012 ± 0.006 | 0.30 ± 0.15 |
| c | 0.010 + 0.006 | 0.25 + 0.15 |
| d | 0.014 + 0.006 | 0.35 + 0.15 |



Terminal Configuration

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



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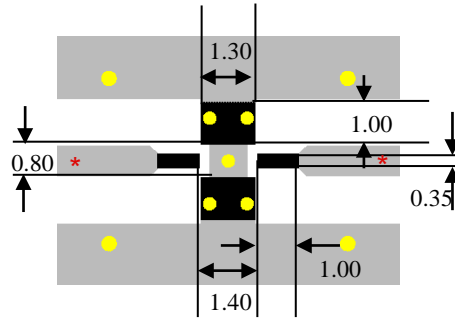
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Mounting Considerations

Mount these devices with brown mark facing up.

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

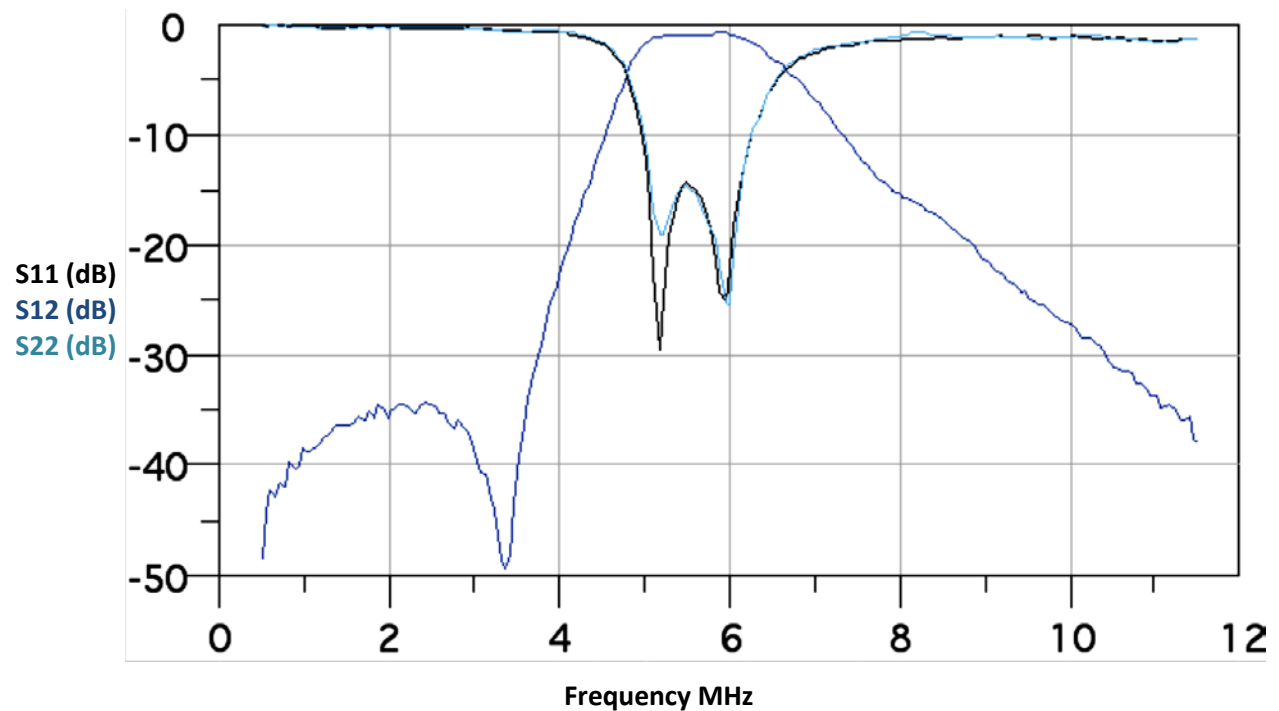


LEGEND

- Solder
- Land
- Through-hole ($\phi 0.35$)

Units: mm

Typical Electrical Performance (T=25°C)



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