

# "High Frequency Ceramic Solutions"

## 5.5 GHz Band Pass Filter

Detail Specification

P/N 5515BP15B730

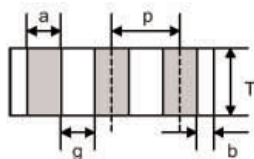
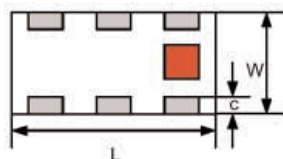
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| Part Number   | Frequency (MHz) | Insertion Loss | Attenuation (min.)  | Return Loss | Ripple      |
|---------------|-----------------|----------------|---|-------------|-------------|
| 5515BP15B730_ | 5150 - 5875     | 2.8 dB max.    | 30 dB @ 0.5-4.0 GHz<br>25 dB @ 10.3-11.8 GHz<br>20 dB @ 4.6 GHz | 9.5 dB min. | 0.7 dB max. |

| Input Power | Group Delay | Impedance   | Operating Temperature Range |
|-------------|-------------|-------------|-----------------------------|
| 3 Watts max | 5.0 nS max. | 50 $\Omega$ | -40 to +85°C                |

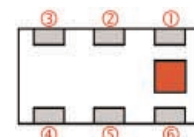
### Mechanical Dimensions

|        | L            | W            | T            | a            | b            | c                   | g            | p            |
|--------|--------------|--------------|--------------|--------------|--------------|---------------------|--------------|--------------|
| Inches | 0.079 ± .004 | 0.049 ± .004 | 0.034 ± .004 | 0.012 ± .004 | 0.008 ± .004 | 0.012 + .004/-0.008 | 0.014 ± .004 | 0.026 ± .002 |
| mm     | 2.0 ± 0.1    | 1.25 ± 0.1   | 0.85 ± 0.1   | 0.30 ± 0.1   | 0.20 ± 0.1   | 0.30+0.1/-0.2       | 0.35 ± 0.1   | 0.65 ± 0.05  |



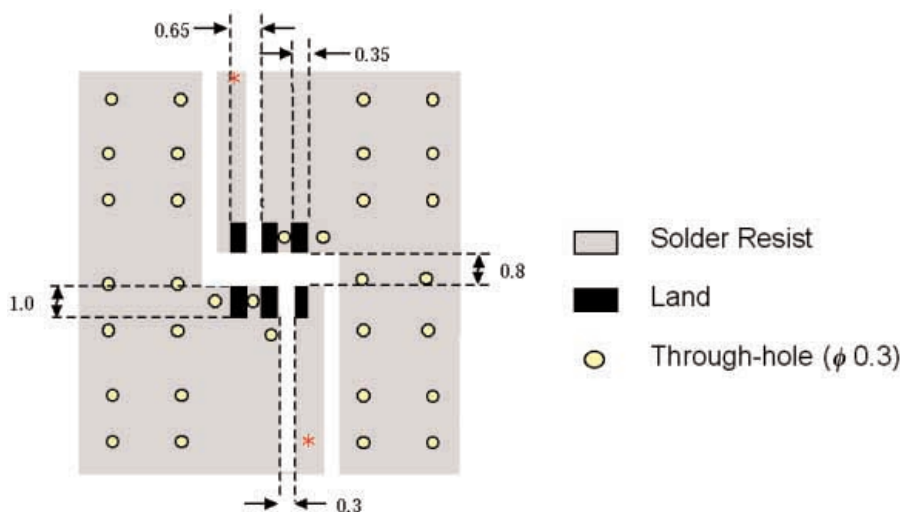
### Terminal Configuration

|   |     |   |     |
|---|-----|---|-----|
| 1 | GND | 4 | GND |
| 2 | GND | 5 | GND |
| 3 | I/O | 6 | I/O |



### Mounting Considerations

Mount these devices with brown colored side facing up. \* Line width should be designed to provide 50 $\Omega$  impedance matching characteristics.



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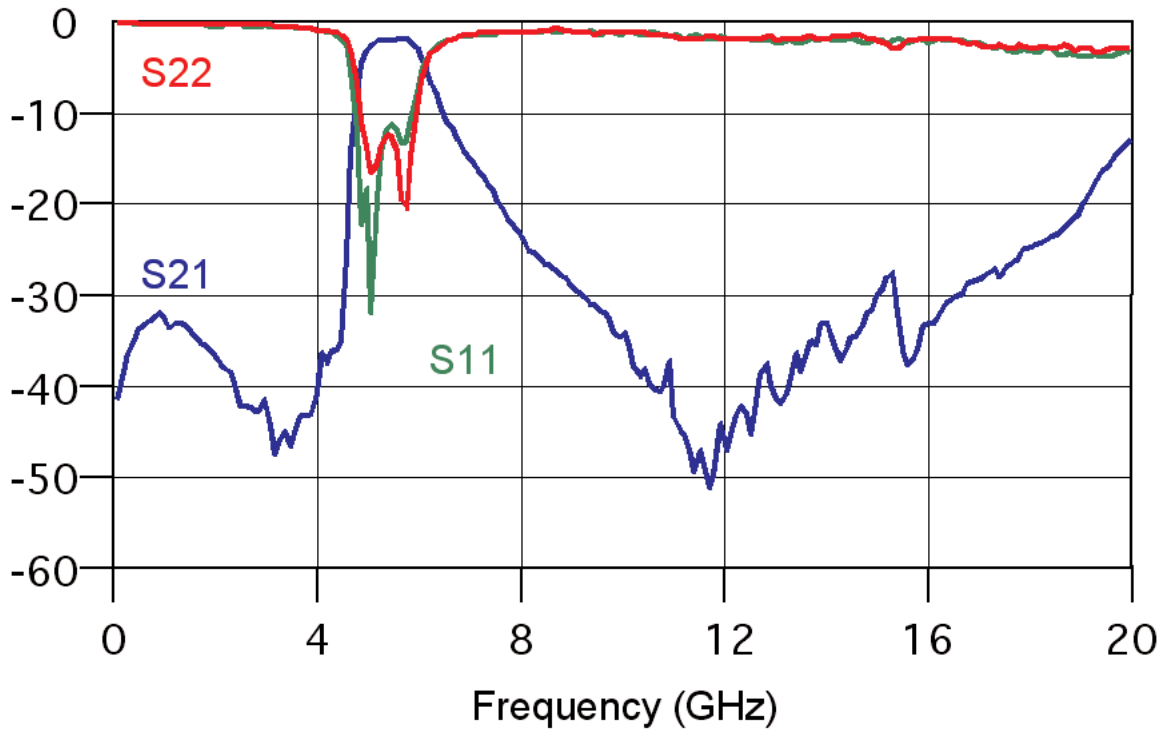
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Typical Insertion Loss / Return Loss



### Delivery

Packaged in embossed tape on 7" reels (3000 / reel)  
Standard delivery is eight weeks or sooner ARO