

# "High Frequency Ceramic Solutions"

## 2.45 GHz High Pass Filter

P/N 2450HP15A100

Detail Specification: 11/14/12

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### General Specifications

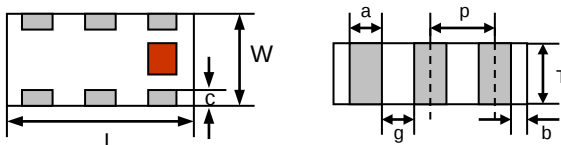
|                  |                         |                       |              |
|------------------|-------------------------|-----------------------|--------------|
| Part Number      | 2450HP15A100            | Return Loss           | 9.5 dB max.  |
| Frequency (MHz)  | 2400 - 2500             | Impedance             | 50 $\Omega$  |
| Insertion Loss   | 0.85 dB max.            | Operating Temperature | -40 to +85°C |
| Attenuation (db) | 25 dB @ 875 - 920 MHz   | Reel Quantity         | 4,000        |
| Attenuation (db) | 20 dB @ 1705 - 1790 MHz | Input Power           | 3 W max.     |
| Attenuation (db) | 19 dB @ 1845 - 1915 MHz |                       |              |

### Part Number Explanation

| P/N Suffix | Packing Style    | Bulk (Loose)        | Suffix = S | eg. 2450HP15A100S |
|------------|------------------|---------------------|------------|-------------------|
|            |                  | T & R               | Suffix = E | eg. 2450HP15A100E |
|            | Evaluation Board | 2450HP15A100-EB-SMA |            |                   |

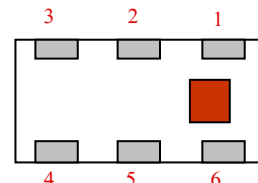
### Mechanical Dimensions

|   | In                       | mm                    |
|---|--------------------------|-----------------------|
| L | 0.079 $\pm$ 0.004        | 2.00 $\pm$ 0.10       |
| W | 0.049 $\pm$ 0.004        | 1.25 $\pm$ 0.10       |
| T | 0.037 $\pm$ 0.004        | 0.95 $\pm$ 0.10       |
| a | 0.012 $\pm$ 0.004        | 0.30 $\pm$ 0.10       |
| b | 0.008 $\pm$ 0.004        | 0.20 $\pm$ 0.10       |
| c | 0.008 $\pm$ .004 / -.008 | 0.20 $\pm$ 0.1 / -0.2 |
| g | 0.014 $\pm$ 0.008        | 0.35 $\pm$ 0.20       |
| p | 0.026 $\pm$ 0.006        | 0.65 $\pm$ 0.15       |



### Terminal Configuration

| No. | Function |
|-----|----------|
| 1   | GND      |
| 2   | IN       |
| 3   | GND      |
| 4   | GND      |
| 5   | OUT      |
| 6   | GND      |



### Mounting Considerations

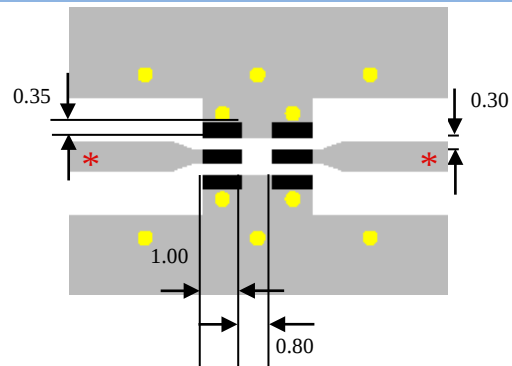
Mount these devices with brown mark facing up.

\*Line width should be designed to provide 50  $\Omega$  impedance matching characteristics.

Units: mm

#### LEGEND

- Solder
- Land
- Through-hole ( $\phi 0.5$ )



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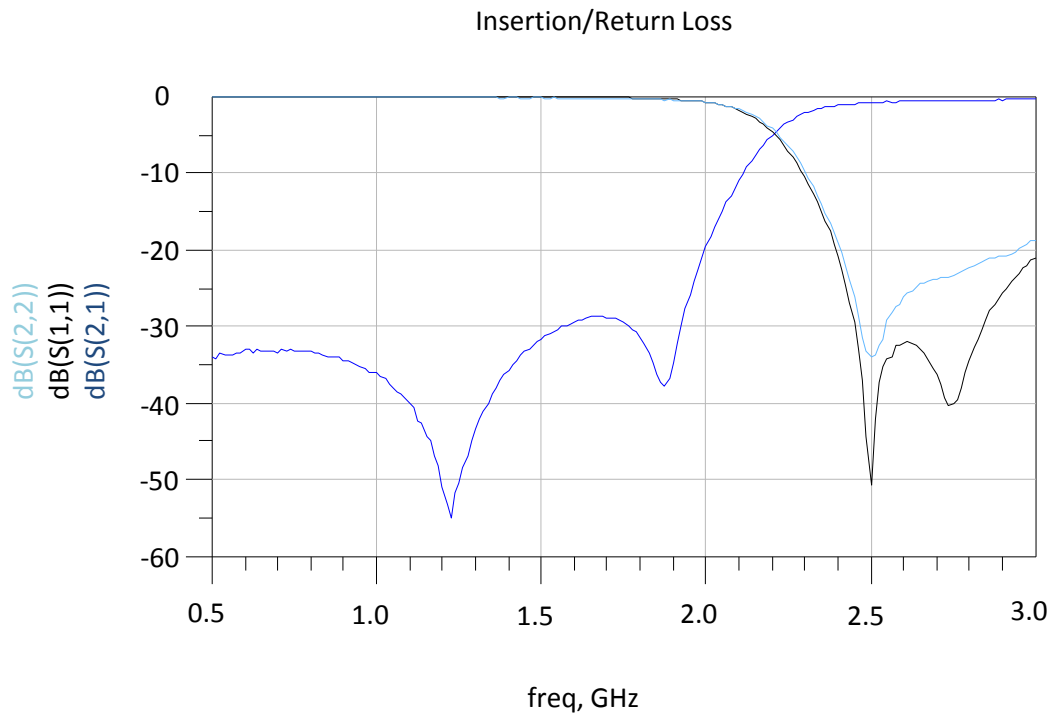
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### Typical Electrical Performance (T=25°C)



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