**High Frequency Ceramic Solutions**

5.5GHz Band Pass Filter, SMD, Low Loss and High Attenuation

P/N 5500BP44A0700

Detail Specification: 1/25/2022

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### General Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>5500BP44A0700</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range (MHz)</td>
<td>5170 - 5815</td>
</tr>
<tr>
<td>Insertion loss (dB)</td>
<td>2.8 max.</td>
</tr>
<tr>
<td>Ripple (dB)</td>
<td>2.0 max.</td>
</tr>
</tbody>
</table>

### Mechanical Dimensions

- **L**: 0.177 ± 0.008 in. / 4.50 ± 0.20 mm
- **W**: 0.126 ± 0.008 in. / 3.20 ± 0.20 mm
- **T**: 0.075 ± 0.004 in. / 1.90 ± 0.10 mm
- **a**: 0.016 ± 0.008 in. / 0.40 ± 0.20 mm
- **b**: 0.031 ± 0.008 in. / 0.80 ± 0.20 mm
- **c**: 0.012 ± 0.006 in. / 0.30 ± 0.15 mm

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### Terminal Configuration

<table>
<thead>
<tr>
<th>No.</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GND</td>
</tr>
<tr>
<td>2</td>
<td>INPUT / OUTPUT</td>
</tr>
<tr>
<td>3</td>
<td>GND</td>
</tr>
<tr>
<td>4</td>
<td>INPUT / OUTPUT</td>
</tr>
</tbody>
</table>

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### Part Number Explanation

- **P/N Suffix**
  - **Packaging Style**: Bulk (loose pcs.)
  - T & R
  - **Evaluation Board**: 50Ω SMA

- **Suffix**
  - S
  - E
  - EB1SMA

- **E.g.**
  - 5500BP44A0700S
  - 5500BP44A0700E
  - 5500BP44A0700-EB1SMA

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You can download measured s-parameters of this component at: [https://www.johansontechnology.com/band-pass-filters](https://www.johansontechnology.com/band-pass-filters)

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https://www.johansontechnology.com

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Mounting Considerations

Mount these devices with green mark facing up.

Units in mm

- Solder Resist
- Land
- Through-hole (Φ 0.3)

* Transmission line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

Would you like the layout? Send us a message at: https://www.johansontechnology.com/ask-a-question

Measuring Diagram

Port 1: Filter IN/OUT
Port 2: Filter IN/OUT

Network Analyzer

Port 1 (50Ω)

Port 2 (50Ω)

GND

I/O

A0

GND

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Typical Electrical Characteristics (T=25°C)

Insertion Loss & Return loss

Do you need the S-parameter file of the above? Send us a message at:
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