5.5 GHz Chip Antenna

Part Number | 5500AT18A0725
---|---
Frequency Range | 5150 - 5875 MHz
Peak Gain | 2.0 dBi typ. (XZ-V)
Average Gain | -2.5 dBi typ. (XZ-V)
Return Loss | 9.5 dB min.
Input Power | 2W max.
Impedance | 50 Ω
Reel Quantity | 3,000
Operating Temperature | -40 to +85°C
Storage Temperature | +5 ~ +35°C, Humidity 45~75%RH, 12 mos. Max

Peak Gain

**General Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>5500AT18A0725</td>
</tr>
<tr>
<td>Frequency Range</td>
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</tr>
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</tr>
</tbody>
</table>

**Mechanical Dimensions**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>0.126 ± 0.008</td>
</tr>
<tr>
<td>W</td>
<td>0.063 ± 0.008</td>
</tr>
<tr>
<td>T</td>
<td>0.051 +0.004/-0.008</td>
</tr>
<tr>
<td>a</td>
<td>0.020 ± 0.012</td>
</tr>
</tbody>
</table>

**Mounting Considerations**

Mount these devices with brown mark facing up. Units: mm

*Line width should be designed to provide 50Ω impedance matching characteristics.

**a) Without Matching Circuits**

**b) With Matching Circuits**

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Typical Electrical Characteristics (T=25°C)

Test Board:

- Ground
- 50Ω Feed Line
- Matching Circuit
- Antenna
- No Ground

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Typical Electrical Characteristics (T=25°C)

a) Without Matching Circuit

b) With Matching Circuit

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Typical Radiation Patterns

XY cut @ 5.5GHz
- Vertical
- Horizontal

XZ cut @ 5.5GHz
- Vertical
- Horizontal

YZ cut @ 5.5GHz
- Vertical
- Horizontal

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