13 dB, Air Directional Coupler, 555–2700 MHz

Product Classification

Regional Availability
- Asia
- Australia/New Zealand
- EMEA
- Latin America
- North America

Product Type
- Directional coupler

General Specifications

Device Type
- Coupler

Application
- Indoor/Outdoor

Color
- Silver

Inner Contact Plating
- Silver

Interface
- 7-16 DIN Female

Outer Contact Plating
- Trimetal

Dimensions

Height
- 36 mm | 1.417 in

Width
- 74.5 mm | 2.933 in

Length
- 169 mm | 6.654 in

Electrical Specifications

3rd Order IMD
- -160 dBc

3rd Order IMD Test Method
- Two +43 dBm carriers

Insertion Loss at Frequency Band
- 0.5 dB @ 555–2700 MHz

Return Loss, minimum
- 20.8 dB

Average Power, maximum
- 300 W

Coupling
- 13 dB

Coupling Tolerance
- ±1.0 dB @ 698–2700 MHz | ±2.0 dB @ 555–698 MHz

Impedance
- 50 ohm
### Isolation at Frequency Band
33 dB @ 555–2700 MHz

### Operating Frequency Band
555 – 2700 MHz

### Peak Power, maximum
1 kW

### Reflected Power, maximum
200 W

### VSWR
1.2

### Mechanical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coupling Nut Proof Torque</td>
<td>25 N·m</td>
</tr>
</tbody>
</table>

### Environmental Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-35 °C to +85 °C (-31 °F to +185 °F)</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>Up to 100%</td>
</tr>
<tr>
<td>Ingress Protection Test Method</td>
<td>IEC 60529:2001, IP65</td>
</tr>
</tbody>
</table>

### Packaging and Weights

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height, packed</td>
<td>65 mm</td>
</tr>
<tr>
<td>Width, packed</td>
<td>110 mm</td>
</tr>
<tr>
<td>Length, packed</td>
<td>170 mm</td>
</tr>
<tr>
<td>Volume</td>
<td>1,215.5 cc</td>
</tr>
<tr>
<td>Weight, gross</td>
<td>0.98 kg</td>
</tr>
<tr>
<td>Weight, net</td>
<td>0.9 kg</td>
</tr>
</tbody>
</table>

### Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINA-ROHS</td>
<td>Below maximum concentration value</td>
</tr>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
</tr>
<tr>
<td>REACH-SVHC</td>
<td>Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a></td>
</tr>
<tr>
<td>ROHS</td>
<td>Compliant</td>
</tr>
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