15 dB, Low PIM Air Directional Coupler, 340–2700 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            | N Female
Outer Contact Plating | Trimetal

Dimensions

Height               | 23 mm | 0.906 in
Width                | 76 mm | 2.992 in
Length               | 211 mm | 8.307 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 @ 340–2700 MHz
Return Loss, minimum  | 20.8 dB
Average Power, maximum | 200 W
Coupling             | 15 dB
Coupling Tolerance   | ±1.2 dB @ 380–2700 MHz | ±1.7 dB @ 340–380 MHz
Impedance            | 50 ohm
C-15-TCPUSE-N-A16

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolation at Frequency Band</td>
<td>35 dB @ 340–2700 MHz</td>
</tr>
<tr>
<td>Operating Frequency Band</td>
<td>340 – 2700 MHz</td>
</tr>
<tr>
<td>Peak Power, maximum</td>
<td>1 kW</td>
</tr>
<tr>
<td>Reflected Power, maximum</td>
<td>200 W</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.2</td>
</tr>
</tbody>
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Environmental Specifications

- **Operating Temperature**: -25 °C to +85 °C (-13 °F to +185 °F)
- **Relative Humidity**: Up to 100%
- **Ingress Protection Test Method**: IEC 60529:2001, IP65

Packaging and Weights

- **Height, packed**: 42 mm | 1.654 in
- **Width, packed**: 77 mm | 3.031 in
- **Length, packed**: 258 mm | 10.157 in
- **Weight, gross**: 0.58 kg | 1.279 lb
- **Weight, net**: 0.52 kg | 1.146 lb

Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
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</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>
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<tr>
<td>ROHS</td>
<td>Compliant</td>
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