Arrestor Plus® Dual Band Quarterwave Surge Arrestor (T-shaped, Cylindrical), 800–2170 MHz, with interface types N Female and N Female

Product Classification

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Surge arrestor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Brand</td>
<td>Arrestor Plus®</td>
</tr>
<tr>
<td>Ordering Note</td>
<td>CommScope® non-standard product</td>
</tr>
</tbody>
</table>

General Specifications

<table>
<thead>
<tr>
<th>Device Type</th>
<th>dc Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Contact Plating</td>
<td>Gold</td>
</tr>
<tr>
<td>Interface</td>
<td>N Female</td>
</tr>
<tr>
<td>Interface 2</td>
<td>N Female</td>
</tr>
<tr>
<td>Outer Contact Plating</td>
<td>Trimetal</td>
</tr>
<tr>
<td>Pressurizable</td>
<td>No</td>
</tr>
</tbody>
</table>

Dimensions

<table>
<thead>
<tr>
<th>Height</th>
<th>74 mm</th>
<th>2.913 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>25 mm</td>
<td>0.984 in</td>
</tr>
<tr>
<td>Length</td>
<td>73 mm</td>
<td>2.874 in</td>
</tr>
</tbody>
</table>

Outline Drawing
Electrical Specifications

3rd Order IMD                        -117 dBm
3rd Order IMD Test Method           Two +43 dBm carriers
Insertion Loss, typical             0.07 dB
Average Power at Frequency          600.0 W @ 900 MHz
Connector Impedance                 50 ohm
Lightning Surge Capability          100 times @ 20 kA
Lightning Surge Capability Waveform 8/20 waveform
Lightning Surge Current             30 kA
Lightning Surge Current Waveform    8/20 waveform
Operating Frequency Band            1710 – 2000 MHz  |  2000 – 2170 MHz  |  806 – 824 MHz  |  824 – 960 MHz
Peak Power, maximum                10 kW
Throughput Energy at Current        2.0 mJ @ 30 kA  |  25.0 μJ @ 2 kA
Throughput Energy Waveform         8/20 waveform
VSWR/Return Loss

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VSWR</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>806–824 MHz</td>
<td>1.152</td>
<td>23.02</td>
</tr>
<tr>
<td>824–960 MHz</td>
<td>1.135</td>
<td>23.98</td>
</tr>
<tr>
<td>1710–2000 MHz</td>
<td>1.101</td>
<td>26.36</td>
</tr>
<tr>
<td>2000–2170 MHz</td>
<td>1.135</td>
<td>23.98</td>
</tr>
</tbody>
</table>

Mechanical Specifications

- **Attachment Durability**: 25 cycles
- **Interface Durability**: 500 cycles
- **Interface Durability Method**: IEC 61169-16:9.5
- **Mechanical Shock Test Method**: MIL-STD-202F, Method 213B, Test Condition C

Environmental Specifications

- **Operating Temperature**: -40 °C to +150 °C (-40 °F to +302 °F)
- **Storage Temperature**: -40 °C to +100 °C (-40 °F to +212 °F)
- **Attenuation, Ambient Temperature**: 20 °C | 68 °F
- **Average Power, Ambient Temperature**: 40 °C | 104 °F
- **Corrosion Test Method**: MIL-STD-202, Method 101, Test Condition B
- **Immersion Depth**: 1 m
- **Immersion Test Mating**: Mated
- **Immersion Test Method**: IEC 60529:2001, IP68
- **Moisture Resistance Test Method**: MIL-STD-202, Method 106
- **Vibration Test Method**: GR 2846-CORE
- **Water Jetting Test Mating**: Mated

Packaging and Weights

- **Weight, net**: 0.399 kg | 0.88 lb

Regulatory Compliance/Certifications

- **Agency** | **Classification**
  - CHINA-ROHS | Above maximum concentration value
ISO 9001:2015   Designed, manufactured and/or distributed under this quality management system
REACH-SVHC   Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS   Compliant/Exempted
UK-ROHS   Compliant/Exempted

* Footnotes

Insertion Loss, typical: 0.05√freq (GHz) (not applicable for elliptical waveguide)
Immersion Depth: Immersion at specified depth for 24 hours