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

Product Classification

- **Product Type**: Surge arrestor
- **Product Brand**: Arrestor Plus®
- **Ordering Note**: CommScope® non-standard product

General Specifications

- **Device Type**: dc Block
- **Inner Contact Plating**: Gold
- **Interface**: N Female
- **Interface 2**: N Female
- **Outer Contact Plating**: Trimetal
- **Pressurizable**: No

Dimensions

- **Height**: 74.168 mm | 2.92 in
- **Width**: 24.892 mm | 0.98 in
- **Length**: 73.406 mm | 2.89 in

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>1.16</td>
<td>23</td>
</tr>
<tr>
<td>824–960 MHz</td>
<td>1.14</td>
<td>24</td>
</tr>
<tr>
<td>1710–2000 MHz</td>
<td>1.11</td>
<td>26.4</td>
</tr>
<tr>
<td>2000–2170 MHz</td>
<td>1.14</td>
<td>24</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**: CHINA-ROHS
- **Classification**: Above maximum concentration value
**APT-NFNF-DB**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Description</th>
</tr>
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<tbody>
<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/Exempted</td>
</tr>
</tbody>
</table>

**Footnotes**

- **Immersion Depth**: Immersion at specified depth for 24 hours
- **Insertion Loss, typical**: $0.05\sqrt{\text{freq} \,(\text{GHz})}$ (not applicable for elliptical waveguide)