Arrestor Plus® LTE Band Quarterwave dc Passing Surge Arrestor (T-shaped), 698–2700 MHz, with interface types DIN Female Bulkhead and DIN Male

Product Classification

**Product Type**
Surge arrestor

**Product Brand**
Arrestor Plus®

**Ordering Note**
CommScope® standard product in Asia Pacific

General Specifications

**Device Type**
dc Pass

**Body Style**
Bulkhead

**Inner Contact Plating**
Silver

**Interface**
7-16 DIN Female Bulkhead

**Interface 2**
7-16 DIN Male

**Outer Contact Plating**
Trimetal

**Pressurizable**
No

**Dimensions**

<table>
<thead>
<tr>
<th>Height</th>
<th>87.884 mm</th>
<th>3.46 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>41.91 mm</td>
<td>1.65 in</td>
</tr>
<tr>
<td>Length</td>
<td>87.884 mm</td>
<td>3.46 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: 3000 W
Connector Impedance: 50 ohm
dc Current, continuous: 3 A
Gas Tube Voltage: 350 V
Lightning Surge Capability: 10 times @ 30 kA
Lightning Surge Capability Waveform: 8/20 waveform
Lightning Surge Current: 30 kA
Lightning Surge Current Waveform: 8/20 waveform
Operating Frequency Band: 698 – 2700 MHz
Peak Power, maximum: 40 kW

VSWR/Return Loss

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VSWR</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0–2.3 MHz</td>
<td>1.14</td>
<td>-24</td>
</tr>
</tbody>
</table>
698–806 MHz
806–960 MHz
1710–2200 MHz
2200–2700 MHz

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Attenuation</th>
<th>Insertion Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>698–806 MHz</td>
<td>1.21</td>
<td>20.45</td>
</tr>
<tr>
<td>806–960 MHz</td>
<td>1.14</td>
<td>-24</td>
</tr>
<tr>
<td>1710–2200 MHz</td>
<td>1.14</td>
<td>-24</td>
</tr>
<tr>
<td>2200–2700 MHz</td>
<td>1.24</td>
<td>-19.5</td>
</tr>
</tbody>
</table>

**Mechanical Specifications**

- **Attachment Durability**: 25 cycles
- **Coupling Nut Proof Torque**: 220 in lb | 24,857 N-m
- **Coupling Nut Retention Force**: 1,000.85 N | 225 lbf
- **Coupling Nut Retention Force Method**: MIL-C-39012C-3.25, 4.6.22
- **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 +100 °C (-40 °F to +212 °F)
- **Storage Temperature**: -70 °C to +150 °C (-94 °F to +302 °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
- **Water Jetting Test Mating**: Mated

**Packaging and Weights**

- **Weight, net**: 0.599 kg | 1.32 lb

**Regulatory Compliance/Certifications**

- **Agency**
  - CHINA-ROHS: Above maximum concentration value
  - ISO 9001:2015: Designed, manufactured and/or distributed under this quality management system
**Footnotes**

**Immersion Depth**
Immersion at specified depth for 24 hours

**Insertion Loss, typical**
0.05√¯freq (GHz) (not applicable for elliptical waveguide)