Arrestor Plus® Gas Tube Surge Arrestor (90 V), 45–2200 MHz, with interface types DIN Female Bulkhead and DIN Male

Product Classification

Product Type: Surge arrestor
Ordering Note: CommScope® non-standard product

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

Height: 39.88 mm | 1.57 in
Width: 39.88 mm | 1.57 in
Length: 74.93 mm | 2.95 in

Outline Drawing
**Electrical Specifications**

- **Insertion Loss, typical**: 0.1 dB
- **Average Power**: 30 W
- **Connector Impedance**: 50 ohm
- **Gas Tube Voltage**: 90 V
- **Lightning Surge Current**: 20 kA
- **Lightning Surge Current Waveform**: 8/20 waveform
- **Operating Frequency Band**: 1000 – 2000 MHz | 2000 – 2200 MHz | 45 – 1000 MHz

**VSWR/Return Loss**

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VSWR</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>45–1000 MHz</td>
<td>1.11</td>
<td>26.4</td>
</tr>
<tr>
<td>1000–2000 MHz</td>
<td>1.16</td>
<td>23</td>
</tr>
<tr>
<td>2000–2200 MHz</td>
<td>1.18</td>
<td>22</td>
</tr>
</tbody>
</table>

**Mechanical Specifications**

- **Attachment Durability**: 25 cycles
- **Coupling Nut Proof Torque**: 24.86 N-m | 220.03 in lb
- **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

- **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
- -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

### Thermal Shock Test Method
- MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C

### Vibration Test Method
- GR 2846-CORE

### Water Jetting Test Mating
- Mated

### Water Jetting Test Method
- IEC 60529:2001, IP66

## Packaging and Weights

- **Weight, net**: 0.299 kg | 0.66 lb

## Regulatory Compliance/Certifications

### Agency
- ISO 9001:2015
- REACH-SVHC
- ROHS

### Classification
- Designed, manufactured and/or distributed under this quality management system
- Compliant as per SVHC revision on www.commscope.com/ProductCompliance
- Compliant

## Footnotes

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