Arrestor Plus® Gas Tube Surge Arrestor (90 V), 45–2170 MHz, with interface types DIN Female Bulkhead and DIN Female

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 Female

**Outer Contact Plating**
Silver

**Pressurizable**
No

Dimensions

**Height**
39.88 mm | 1.57 in

**Width**
39.88 mm | 1.57 in

**Length**
81.03 mm | 3.19 in

Outline Drawing
Electrical Specifications

- **Insertion Loss, typical**: 0.3 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 – 2170 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>1.18</td>
<td>22</td>
</tr>
<tr>
<td>1000–2000 MHz</td>
<td>1.23</td>
<td>20</td>
</tr>
<tr>
<td>2000–2170 MHz</td>
<td>1.26</td>
<td>19</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 +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

**Classification**
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)