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

Product Classification

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Surge arrester</th>
</tr>
</thead>
<tbody>
<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 Pass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Style</td>
<td>Bulkhead</td>
</tr>
<tr>
<td>Inner Contact Plating</td>
<td>Gold</td>
</tr>
<tr>
<td>Interface</td>
<td>N Female Bulkhead</td>
</tr>
<tr>
<td>Interface 2</td>
<td>N Male</td>
</tr>
<tr>
<td>Outer Contact Plating</td>
<td>Silver</td>
</tr>
<tr>
<td>Pressurizable</td>
<td>No</td>
</tr>
</tbody>
</table>

Dimensions

<table>
<thead>
<tr>
<th>Height</th>
<th>30.99 mm</th>
<th>1.22 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>30.99 mm</td>
<td>1.22 in</td>
</tr>
<tr>
<td>Length</td>
<td>72.9 mm</td>
<td>2.87 in</td>
</tr>
</tbody>
</table>

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>1.101</td>
<td>26.36</td>
</tr>
<tr>
<td>1000–2000 MHz</td>
<td>1.135</td>
<td>23.98</td>
</tr>
<tr>
<td>2000–2170 MHz</td>
<td>1.173</td>
<td>21.98</td>
</tr>
</tbody>
</table>

Mechanical Specifications

Attachment Durability 25 cycles
Coupling Nut Proof Torque 4.52 N-m | 40.005 in lb
Coupling Nut Retention Force 444.822 N | 100 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

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
Vibration Test Method GR 2846-CORE
Water Jetting Test Mating Mated

Packaging and Weights

Weight, net 0.159 kg | 0.35 lb

Regulatory Compliance/Certifications

Agency Classification
CHINA-ROHS Below 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
UK-ROHS Compliant
## Footnotes

<table>
<thead>
<tr>
<th>Insertion Loss, typical</th>
<th>$0.05 \sqrt{\text{freq (GHz)}}$ (not applicable for elliptical waveguide)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immersion Depth</td>
<td>Immersion at specified depth for 24 hours</td>
</tr>
</tbody>
</table>