Dual Band Bias Tee Surge Arrestor (Cylindrical), 698-2700 MHz, with interface types N Female and N Male

**Product Classification**

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Surge arrestor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering Note</td>
<td>CommScope® non-standard product</td>
</tr>
</tbody>
</table>

**General Specifications**

<table>
<thead>
<tr>
<th>Injector Port Interface</th>
<th>SMA Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner Contact Plating</td>
<td>Silver</td>
</tr>
<tr>
<td>Interface</td>
<td>N Female</td>
</tr>
<tr>
<td>Interface 2</td>
<td>N Male</td>
</tr>
<tr>
<td>Outer Contact Plating</td>
<td>Trimetal</td>
</tr>
<tr>
<td>Pressurizable</td>
<td>No</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Height</th>
<th>39.878 mm</th>
<th>1.57 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>39.878 mm</td>
<td>1.57 in</td>
</tr>
<tr>
<td>Length</td>
<td>81.026 mm</td>
<td>3.19 in</td>
</tr>
</tbody>
</table>

**Outline Drawing**
Electrical Specifications

3rd Order IMD: -116 dBm
3rd Order IMD Test Method: Two +43 dBm carriers
Insertion Loss, typical: 0.1 dB
Average Power at Frequency: 250.0 W @ 1,910 MHz | 500.0 W @ 833 MHz
Connector Impedance: 50 ohm
dc Injector Port Inner Contact Plating: Gold
Injector Port to Antenna Isolation, minimum: -70 dB
Lightning Surge Capability: 10 times @ 6 kA
Lightning Surge Capability Waveform: 8/20 waveform
Lightning Surge Current: 6 kA
Lightning Surge Current Waveform: 8/20 waveform
Operating Frequency Band: 698 – 2700 MHz
Throughput Current, typical: 1 A
Voltage Range: -30 V to 30 V

VSWR/Return Loss

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VSWR</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
698–806 MHz  1.13  24.29
806–2700 MHz  1.11  26

Mechanical Specifications

Attachment Durability  25 cycles
Coupling Nut Proof Torque  40 in lb  |  4.519 N-m
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 +85 °C (-40 °F to +185 °F)
Storage Temperature  -40 °C to +85 °C (-40 °F to +185 °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  0.259 kg  |  0.57 lb

Regulatory Compliance/Certifications

Agency  Classification
AISG  Compliant
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)