Quarterwave Surge Arrestor 695-2700MHz, with interface types 4.3-10 Female and 4.3-10 Male

Product Classification

**Product Type**

Surge arrester

General Specifications

**Device Type**

dc Pass

**Inner Contact Plating**

Silver

**Interface**

4.3-10 Female

**Interface 2**

4.3-10 Male

**Outer Contact Plating**

Trimetal

Dimensions

**Height**

72.7 mm  |  2.862 in

**Width**

25 mm  |  0.984 in

**Length**

97.3 mm  |  3.831 in

Outline Drawing
Electrical Specifications

3rd Order IMD Gain: -117 dB
3rd Order IMD Test Method: Two +43 dBm carriers
Connector Impedance: 50 ohm
Lightning Surge Current: 10 kA
Lightning Surge Current Waveform: 8/20 waveform
Operating Frequency Band: 695 – 2700 MHz
Peak Instantaneous Power (PIP): 150 kW RF

VSWR/Return Loss

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VSWR</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>695–806 MHz</td>
<td>1.25</td>
<td>19.1</td>
</tr>
<tr>
<td>806–2170 MHz</td>
<td>1.13</td>
<td>24.3</td>
</tr>
<tr>
<td>2170–2600 MHz</td>
<td>1.16</td>
<td>23.1</td>
</tr>
<tr>
<td>2600–2700 MHz</td>
<td>1.2</td>
<td>21</td>
</tr>
</tbody>
</table>

Mechanical Specifications

Coupling Nut Proof Torque: 10 N-m | 88.507 in lb
Coupling Nut Retention Force: 449.27 N | 101 lbf
Coupling Nut Retention Force Method: MIL-C-39012C-3.25, 4.6.22
Interface Durability: 100 cycles
Interface Durability Method: IEC 61169-16:9.5

Environmental Specifications

- Operating Temperature: -45 °C to +85 °C (-49 °F to +185 °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
- Immersion Depth: 1 m
- Immersion Test Mating: Mated
- Immersion Test Method: IEC 60529:2001, IP68
- Water Jetting Test Mating: Mated

Regulatory Compliance/Certifications

- Classification: Designed, manufactured and/or distributed under this quality management system

* Footnotes

- Immersion Depth: Immersion at specified depth for 24 hours