**Product Classification**

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Air coaxial connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Brand</td>
<td>HELIAX®</td>
</tr>
<tr>
<td>Ordering Note</td>
<td>Gas pass version can be created by drilling out the PTFE dielectric</td>
</tr>
</tbody>
</table>

**General Specifications**

<table>
<thead>
<tr>
<th>Body Style</th>
<th>Straight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable Family</td>
<td>HJ7-50A</td>
</tr>
<tr>
<td>Gas Barrier</td>
<td>Yes</td>
</tr>
<tr>
<td>Inner Contact Attachment Method</td>
<td>Thread-in stub</td>
</tr>
<tr>
<td>Inner Contact Plating</td>
<td>Silver</td>
</tr>
<tr>
<td>Interface</td>
<td>1-5/8 in EIA Male Flange</td>
</tr>
<tr>
<td>Mounting Angle</td>
<td>Straight</td>
</tr>
<tr>
<td>Outer Contact Attachment Method</td>
<td>Tab-flare</td>
</tr>
<tr>
<td>Outer Contact Plating</td>
<td>Silver</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Length</th>
<th>140.97 mm</th>
<th>5.55 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>88.392 mm</td>
<td>3.48 in</td>
</tr>
<tr>
<td>Nominal Size</td>
<td>1-5/8 in</td>
<td></td>
</tr>
</tbody>
</table>

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Insertion Loss, typical</th>
<th>0.05 dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Power at Frequency</td>
<td>4.9 kW @ 900 MHz</td>
</tr>
<tr>
<td>Cable Impedance</td>
<td>50 ohm</td>
</tr>
<tr>
<td>Connector Impedance</td>
<td>50 ohm</td>
</tr>
</tbody>
</table>
dc Test Voltage 11 kV
Insulation Resistance, minimum 5000 MΩhm
Operating Frequency Band 0 – 2700 MHz
Peak Power, maximum 300 kW
RF Operating Voltage, maximum (vrms) 3880 V

VSWR/Return Loss

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VSWR</th>
<th>Return Loss (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–1000 MHz</td>
<td>1.02</td>
<td>40.09</td>
</tr>
<tr>
<td>1000–2200 MHz</td>
<td>1.04</td>
<td>34.16</td>
</tr>
<tr>
<td>2200–2700 MHz</td>
<td>1.06</td>
<td>30.72</td>
</tr>
</tbody>
</table>

Environmental Specifications

Operating Temperature -40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature -70 °C to +85 °C (-94 °F to +185 °F)

Packaging and Weights

Weight, net 1.4 kg | 3.086 lb

Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINA-ROHS</td>
<td>Below maximum concentration value</td>
</tr>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
</tr>
<tr>
<td>REACH-SVHC</td>
<td>Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a></td>
</tr>
<tr>
<td>ROHS</td>
<td>Compliant</td>
</tr>
</tbody>
</table>

* Footnotes

Insertion Loss, typical 0.05√freq (GHz) (not applicable for elliptical waveguide)