H5PNF-S

Type N Female with gas barrier for 7/8 in HJ5-50 air dielectric cable

Product Classification

Product Type: Air coaxial connector
Product Brand: HELIAAX®

General Specifications

Body Style: Straight
Cable Family: HJ5-50
Gas Barrier: Yes
Inner Contact Attachment Method: Self-tapping
Inner Contact Plating: Silver
Interface: N Female
Mounting Angle: Straight
Outer Contact Attachment Method: Tab-flare
Outer Contact Plating: Silver

Dimensions

Length: 72.898 mm | 2.87 in
Diameter: 41.402 mm | 1.63 in
Nominal Size: 7/8 in

Electrical Specifications

Insertion Loss, typical: 0.05 dB
Average Power at Frequency: 0.6 kW @ 900 MHz
Cable Impedance: 50 ohm
Connector Impedance: 50 ohm
dc Test Voltage: 2 kV
Insulation Resistance, minimum 5000 MΩhm
Operating Frequency Band 0 – 5200 MHz
Peak Power, maximum 10 kW
RF Operating Voltage, maximum (vrms) 707 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>1–2200 MHz</td>
<td>1.03</td>
<td>36.61</td>
</tr>
<tr>
<td>2200–4000 MHz</td>
<td>1.08</td>
<td>28.3</td>
</tr>
<tr>
<td>4000–5200 MHz</td>
<td>1.15</td>
<td>23.13</td>
</tr>
</tbody>
</table>

Mechanical Specifications


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)
Corrosion Test Method MIL-STD-202, Method 101, Test Condition B
Moisture Resistance Test Method MIL-STD-202, Method 106
Vibration Test Method MIL-STD-202, Method 204, Test Condition B

Packaging and Weights

Weight, net 0.35 kg | 0.772 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>

©2020 CommScope, Inc. All rights reserved. All trademarks identified by ® or ™ are registered trademarks, respectively, of CommScope. All specifications are subject to change without notice. See www.commscope.com for the most current information. Revised: August 29, 2020
* Footnotes

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