QN Female Bulkhead

Product Classification

Product Type: Device connector

General Specifications

Interface: QN Female
Body Style: Bulkhead

Electrical Specifications

Connector Impedance: 50 ohm
Operating Frequency Band: 0 – 6000 MHz
RF Operating Voltage, maximum (vrms): 707.00 V
dc Test Voltage: 2500 V
Outer Contact Resistance, maximum: 1.50 mOhm
Inner Contact Resistance, maximum: 1.50 mOhm
Insulation Resistance, minimum: 5000 mOhm
Peak Power, maximum: 10.00 kW
Outline Drawing

BULKHEAD NUT

LOCK WASHER

M12 x 1.0-6g THREADS

0.625-24 UNEF-2A THREADS

(a=3.0mm)

(a=1.4mm)

(13.7mm)

(11.0mm)

(26.3mm)

(3.3mm)

(44.1mm)

MATES TO QN FEMALE OR EQUIVALENT

Mechanical Specifications

Inner Contact Attachment Method: Solder
Inner Contact Plating: Gold
Interface Durability: 100 cycles
Interface Durability Method: IEC 61169-16:9.5
Outer Contact Plating: Trimetal

Dimensions

Diameter: 22.10 mm | 0.87 in
Length: 44.10 mm | 1.74 in
Weight: 35.20 g | 0.08 lb
Width: 22.10 mm | 0.87 in

Environmental Specifications

Operating Temperature: -55 °C to +85 °C (-67 °F to +185 °F)
Regulatory Compliance/Certifications

Storage Temperature -65 °C to +125 °C (-85 °F to +257 °F)
Mechanical Shock Test Method IEC 60068-2-27
Climatic Sequence Test Method IEC 60068-1
Damp Heat Steady State Test Method IEC 60068-2-3
Thermal Shock Test Method IEC 60068-2-14
Vibration Test Method IEC 60068-2-6
Corrosion Test Method IEC 60068-2-11

Standard Conditions

Attenuation, Ambient Temperature 20 °C | 68 °F
Average Power, Ambient Temperature 40 °C | 104 °F
Average Power, Inner Conductor Temperature 100 °C | 212 °F

Return Loss/VSWR

<table>
<thead>
<tr>
<th>Frequency Band</th>
<th>VSWR</th>
<th>Return Loss (dB)</th>
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<tbody>
<tr>
<td>0–6000 MHz</td>
<td>1.2</td>
<td>20.83</td>
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Regulatory Compliance/Certifications

Agency
RoHS 2011/65/EU
China RoHS SJ/T 11364-2014

Classification
Compliant by Exemption
Above Maximum Concentration Value (MCV)