F4PNMV2-C

Type N Male for 1/2 in FSJ4-50B cable

OBSOLETE

This product was discontinued on: March 31, 2008

Product Classification

Product Type Wireless and radiating connector

Product Brand HELIAX®

General Specifications

Body Style Straight

Cable Family FSJ4-50B

Inner Contact Attachment Method Captivated

Inner Contact Attachment Method
Interface
Mounting Angle
Outer Contact Attachment Method
Outer Contact Plating
Trimetal
Pressurizable
No

Dimensions

 Length
 54.1 mm | 2.13 in

 Diameter
 23.88 mm | 0.94 in

Nominal Size 1/2 in

Electrical Specifications

3rd Order IMD at Frequency -120 dBm @ 910 MHz
3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss Coefficient, typical 0.05

Average Power at Frequency 0.6 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohm



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2000 V dc Test Voltage 2 m0hm Inner Contact Resistance, maximum Insulation Resistance, minimum 5000 MOhm **Operating Frequency Band** 0 - 10200 MHz **Outer Contact Resistance, maximum** 0.3 m0hm Peak Power, maximum 10 kW RF Operating Voltage, maximum (vrms) 707 V **Shielding Effectiveness** -110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0-1000 MHz	1.065	30.04
1000-3000 MHz	1.106	25.96
3000-4000 MHz	1.29	18
4000-5000 MHz	1.68	12
5000-10200 MHz	1.93	10

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force 889.64 N | 200 lbf

Connector Retention Torque 4.07 N-m | 35.996 in lb

Coupling Nut Proof Torque 1.7 N-m | 15.002 in lb

Coupling Nut Retention Force 444.82 N | 100 lbf

Coupling Nut Retention Force Method MIL-C-39012C-3.25, 4.6.22

Insertion Force 66.72 N | 15 lbf

Insertion Force Method MIL-C-39012C-3.12, 4.6.9

Interface Durability 500 cycles

Interface Durability Method IEC 61169-16:9.5

Mechanical Shock Test Method MIL-STD-202F, Method 213B, Test Condition C

Environmental Specifications

Operating Temperature $-55 \,^{\circ}\text{C}$ to $+150 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+302 \,^{\circ}\text{F}$)Storage Temperature $-70 \,^{\circ}\text{C}$ to $+150 \,^{\circ}\text{C}$ (-94 $^{\circ}\text{F}$ to $+302 \,^{\circ}\text{F}$)



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Attenuation, Ambient Temperature $20 \, ^{\circ}\text{C} \mid 68 \, ^{\circ}\text{F}$ Average Power, Ambient Temperature $40 \, ^{\circ}\text{C} \mid 104 \, ^{\circ}\text{F}$

Corrosion Test Method MIL-STD-1344A, Method 1001.1, Test Condition A

 $\label{eq:lmmersionDepth} \mbox{1 m}$

Immersion Test Mating Mated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test Method MIL-STD-202F, Method 106F

Thermal Shock Test Method MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C

Vibration Test Method MIL-STD-202F, Method 204D, Test Condition B

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 90 g | 0.198 lb

* Footnotes

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

Immersion Depth Immersion at specified depth for 24 hours

