F4NF-7570



Type N Female for 1/2 in FSJ4-75A cable

OBSOLETE

This product was discontinued on: February 16, 2016

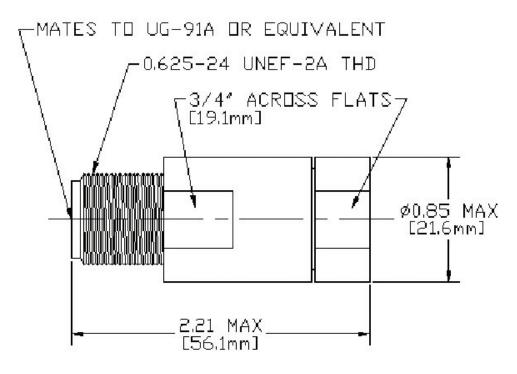
Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®
General Specifications	
Body Style	Straight
Cable Family	FSJ4-75A
Inner Contact Attachment Method	Solder
Inner Contact Plating	Silver
Interface	N Female
Mounting Angle	Straight
Outer Contact Attachment Method	Tab-flare
Outer Contact Plating	Unplated
Pressurizable	No
Dimensions	
Length	53.34 mm 2.1 in
Diameter	20.32 mm 0.8 in
Nominal Size	1/2 in

Outline Drawing

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Electrical Specifications

Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	0.6 kW @ 900 MHz
Cable Impedance	75 ohm
Connector Impedance	70 ohm
dc Test Voltage	2000 V
Inner Contact Resistance, maximum	0.3 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 8400 MHz
Outer Contact Resistance, maximum	2 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)
3.3–4.4 GHz	1.173	21.98

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45–1100 MHz	1.058	31
1100–2200 MHz	1.106	25.96
2200-3300 MHz	1.119	25.01
4400–5500 MHz	1.33	17
5500-6600 MHz	1.433	14.99
6600–7700 MHz	1.68	12
7700-8800 MHz	1.93	10
8800–9900 MHz	1.93	10
9900–11000 MHz	2.1	9

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	889.64 N 200 lbf
Connector Retention Torque	5.42 N-m 47.998 in lb
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 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A
Immersion Depth	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-202, Method 107, Test Condition A-1, Low Temperature -55 $^\circ\mathrm{C}$
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

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Weight, net

64 g | 0.141 lb

* Footnotes

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

Immersion Depth

Immersion at specified depth for 24 hours

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