Product Specifications

F4PDR-C

7-16 DIN Male Right Angle for 1/2 in FSJ4-50B cable

OBSOLETE

Replaced By:

F4DR-C	7-16 DIN Male Right Angle for 1/2 in FSJ4-50B cable

CHARACTERISTICS

General Specifications

Interface	7-16 DIN Male
Body Style	Right angle
Brand	HELIAX®
Mounting Angle	Right angle

Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 5200 MHz
Cable Impedance	50 ohm
3rd Order IMD, typical	-120 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
RF Operating Voltage, maximum (vrms)	884.00 V
dc Test Voltage	2500 V
Outer Contact Resistance, maximum	1.50 mOhm
Inner Contact Resistance, maximum	0.80 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	1.0 kW @ 900 MHz
Peak Power, maximum	15.60 kW
Insertion Loss, typical	0.05 dB
Shielding Effectiveness	-110 dB

Product Specifications

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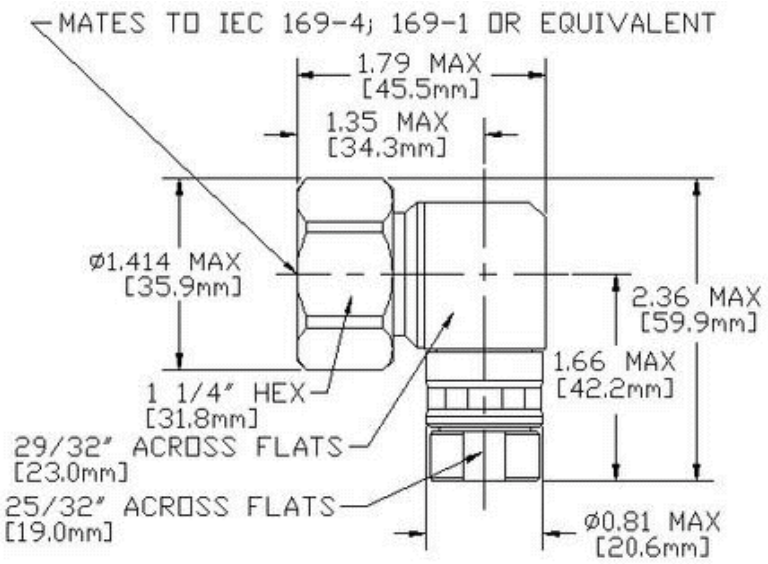
Outline Drawing



Mechanical Specifications

Outer Contact Attachment Method	Crush-flare
Inner Contact Attachment Method	Captivated
Outer Contact Plating	Trimetal
Inner Contact Plating	Gold
Attachment Durability	25 cycles
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:9.5
Connector Retention Tensile Force	890 N | 200 lbf
Connector Retention Torque	5.42 N-m | 48.00 in lb
Insertion Force	200.17 N | 45.00 lbf
Insertion Force Method	IEC 61169-1:15.2.4
Pressurizable	No
Coupling Nut Proof Torque	24.86 N-m | 220.00 in lb
Coupling Nut Retention Force	1000.85 N | 225.00 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22

Dimensions

Nominal Size	1/2 in
Diameter	40.34 mm | 1.59 in
Length	60.96 mm | 2.40 in
Right Angle Length	45.72 mm | 1.80 in

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Weight	207.36 g | 0.46 lb
Width	31.75 mm | 1.25 in

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)
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66
Moisture Resistance Test Method	MIL-STD-202F, Method 106F
Mechanical Shock Test Method	MIL-STD-202F, Method 213B, Test Condition C
Thermal Shock Test Method	MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C
Vibration Test Method	IEC 60068-2-6
Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A

Standard Conditions

Attenuation, Ambient Temperature	20 °C | 68 °F
Average Power, Ambient Temperature	40 °C | 104 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
50–1000 MHz	1.04	33.00
1000–1900 MHz	1.04	33.00
1900–2200 MHz	1.07	29.00
2000–2700 MHz	1.10	26.00
2700–3600 MHz	1.13	24.00
3600–5000 MHz	1.25	19.00

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)

* Footnotes

Product Specifications

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Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	$0.05\sqrt{\text{freq (GHz)}}$ (not applicable for elliptical waveguide)