

F4PDR-C

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



CHARACTERISTICS

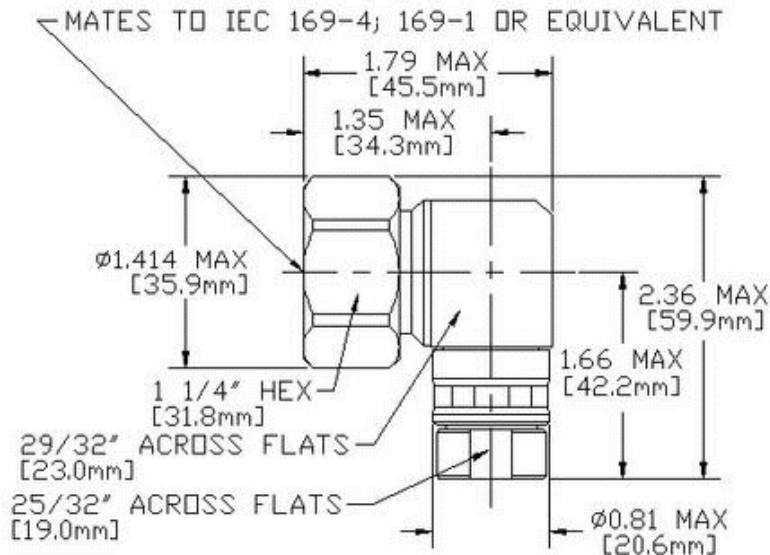
General Specifications

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	-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	1.50 mOhm
Inner Contact Resistance	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

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 169-4:9.5
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 169-1:15.2.4
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, maximum	40.34 mm 1.59 in
Length	60.96 mm 2.40 in

Product Specifications



F4PDR-C

Right Angle Length	45.72 mm 1.80 in
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

Frequency Band	VSWR	Return Loss (dB)
0-9600 MHz	1.02	40.00
1.7-2.3 GHz	1.08	28.00
960-1700 MHz	1.04	35.00
2300-3000 MHz	1.15	23.00

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



F4PDR-C

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