



## F2PDR-C

**7-16 DIN Male Right Angle for 3/8 in FSJ2-50 cable**

### 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 – 3000 MHz
Cable Impedance	50 ohm
3rd Order IMD, typical	-112 dBm @ 910 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
RF Operating Voltage, maximum (vrms)	813.00 V
dc Test Voltage	2300 V
Outer Contact Resistance, maximum	0.40 mOhm
Inner Contact Resistance, maximum	1.50 mOhm
Insulation Resistance, minimum	10000 MOhm
Average Power	0.7 kW @ 900 MHz
Peak Power, maximum	13.20 kW
Shielding Effectiveness	-110 dB

## Outline Drawing



## Mechanical Specifications

Outer Contact Attachment Method	Self-flare
Inner Contact Attachment Method	Captivated
Outer Contact Plating	Silver
Inner Contact Plating	Silver
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:17
Connector Retention Tensile Force	670 N   151 lbf
Connector Retention Torque	2.70 N-m   1.99 ft lb
Insertion Force	889.64 N   200.00 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Pressurizable	No
Coupling Nut Proof Torque	35.00 N-m   25.81 ft lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.11
Coupling Nut Retention Force	1000.00 N   224.81 lbf
Coupling Nut Retention Force Method	IEC 61169-17:9.3.11

## Dimensions

Nominal Size	3/8 in
Diameter	36.00 mm   1.42 in
Height	42.70 mm   1.68 in
Length	51.40 mm   2.02 in
Weight	214.40 g   0.47 lb

## Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Mechanical Shock Test Method	IEC 60068-2-27
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

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Average Power, Inner Conductor Temperature 100 °C | 212 °F

## Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
45–2000 MHz	1.06	31.00

## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



## \* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours
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