F2TDM-PL



7-16 DIN Male Positive Lock for 3/8 in FSJ2-50 cable

Product Classification

Brand HELIAX®

Product TypeWireless and radiating connector

General Specifications

Interface 7-16 DIN Male

Body StyleStraightMounting AngleStraight

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band 0 – 8000 MHz

Cable Impedance 50 ohm

3rd Order IMD, typical -97 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 1.50 mOhm

Inner Contact Resistance, maximum 0.40 mOhm
Insulation Resistance, minimum 10000 MOhm

Average Power 0.7 kW @ 900 MHz

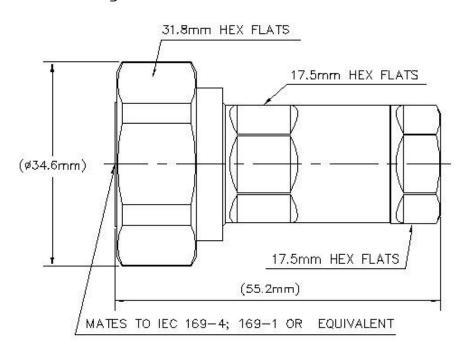
Peak Power, maximum13.20 kWInsertion Loss, typical0.05 dBShielding Effectiveness-110 dB



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Outline Drawing



Mechanical Specifications

Crush-flare **Outer Contact Attachment Method Inner Contact Attachment Method** Captivated **Outer Contact Plating** Trimetal **Inner Contact Plating** Silver 500 cycles **Interface Durability** Interface Durability Method IEC 61169-4:17 670 N | 151 lbf **Connector Retention Tensile Force Connector Retention Torque** 2.70 N-m | 1.99 ft lb Insertion Force 200.00 N | 44.96 lbf **Insertion Force Method** IEC 61169-1:15.2.4

Pressurizable

Coupling Nut Proof Torque35.00 N-m25.81 ft lbCoupling Nut Retention Force1000.00 N224.81 lbfCoupling Nut Retention Force MethodMIL-C-39012C-3.25, 4.6.22

No

Dimensions

Nominal Size 3/8 in

Diameter 34.60 mm | 1.36 in

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Height	34.60 mm 1.36 in
Length	55.20 mm 2.17 in
Weight	133.03 g 0.29 lb
Width	34.60 mm 1.36 in

Environmental Specifications

Operating Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-67 °F to $+185 \,^{\circ}\text{F}$)

Storage Temperature $-65 \,^{\circ}\text{C}$ to $+125 \,^{\circ}\text{C}$ (-85 °F to $+257 \,^{\circ}\text{F}$)

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test MethodIEC 60068-2-3Mechanical Shock Test MethodIEC 60068-2-27Thermal Shock Test MethodIEC 60068-2-14Vibration Test MethodIEC 60068-2-6Corrosion Test MethodIEC 60068-2-11

Standard Conditions

Attenuation, Ambient Temperature $20 \,^{\circ}\text{C}$ | $68 \,^{\circ}\text{F}$ Average Power, Ambient Temperature $40 \,^{\circ}\text{C}$ | $104 \,^{\circ}\text{F}$ Average Power, Inner Conductor Temperature $100 \,^{\circ}\text{C}$ | $212 \,^{\circ}\text{F}$

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
0-960 MHz	1.03	37.60
960–2200 MHz	1.06	30.80
2200-2700 MHz	1.08	28.50
2700-4000 MHz	1.08	28.40
4000-6000 MHz	1.29	18.00
6000-8000 MHz	1.38	16.00

Regulatory Compliance/Certifications

Agency Classification

RoHS 2011/65/EU Compliant by Exemption

ISO 9001:2015 Designed, manufactured and/or distributed under this guality management system

China RoHS SJ/T 11364-2014 Above Maximum Concentration Value (MCV)









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* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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

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