L12PDF



7-16 DIN Female for 2-1/4 in LDF12-50 cable

OBSOLETE This product was discontinued on: February 12, 2015

Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®
General Specifications	
Body Style	Straight
Cable Family	LDF12-50
Inner Contact Attachment Method	Self-tapping
Inner Contact Plating	Silver
Interface	7-16 DIN Female
Mounting Angle	Straight
Outer Contact Attachment Method	Self-flare
Outer Contact Plating	Silver
Pressurizable	No
Dimensions	
Length	139.7 mm 5.5 in
Diameter	71.12 mm 2.8 in
Nominal Size	2-1/4 in

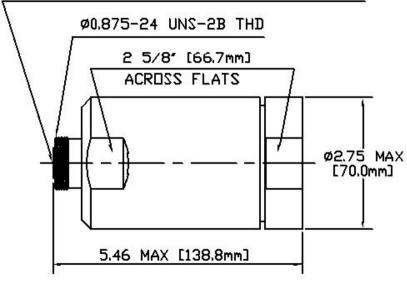
Outline Drawing

Page 1 of 3

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MATES TO IEC 169-4; 169-1 OR EQUIVALENT



Electrical Specifications

Average Power at Frequency $3.0 kW @ 900 MHz$ Cable Impedance $50 ohm$ Connector Impedance $50 ohm$ dc Test Voltage $4000 V$
Connector Impedance 50 ohm
dc Test Voltage 4000 ∨
Inner Contact Resistance, maximum 0.8 mOhm
Insulation Resistance, minimum 5000 MOhm
Operating Frequency Band 0 - 2200 MHz
Outer Contact Resistance, maximum1.5 mOhm
Peak Power, maximum40 kW
RF Operating Voltage, maximum (vrms) 1415 V
Shielding Effectiveness -130 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.065	30.04
1010–1300 MHz	1.094	26.96
1310-2200 MHz	1.152	23.02

Page 2 of 3

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Mechanical Specifications

Attachment Durability	25 cycles
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-202F, Method 107G, 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

Weight, net

1,542.24 g | 3.4 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

* Footnotes

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

Immersion Depth Immersion at specified depth for 24 hours

Page 3 of 3

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