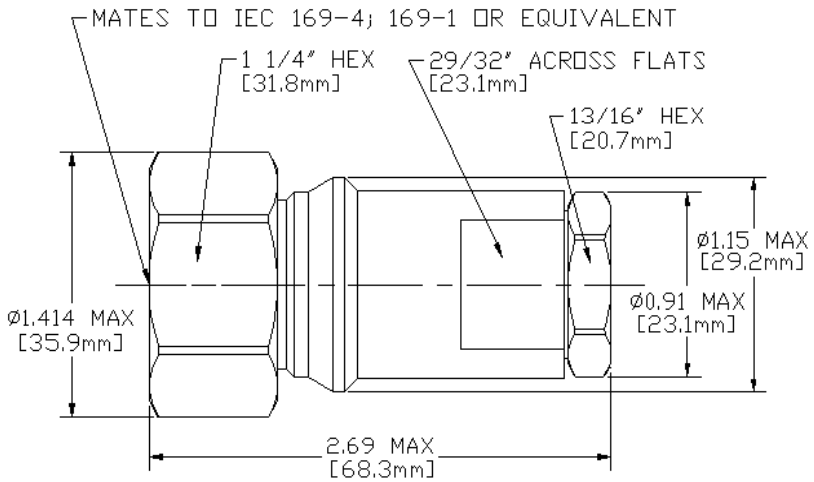
HELIAX®

Connector

PRODUCT SPECIFICATION

L4PDM

7/16 DIN for LDF4RN-50A, Low Density Foam Dielectric Cable



CHARACTERISTICS

Components

Insulator	PTFE
Clamp Nut	Brass Trimetal Plate
Inner Contact	Brass Silver Plate
Coupling Nut	Brass Trimetal Plate
Snap Ring	Phosphor Bronze
O-Ring	Silicone Rubber
O-Ring	Silicone Rubber
O-Ring	Silicone Rubber
O-Ring	Silicone Rubber
Body	Brass Silver Plate

Electrical

Customer Support Center:

From North America: 1-800-255-1479
International: +1-708-873-2307

www.andrew.com

December 19, 200

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Recommended Maximum Operating Frequency, GHz	5.2	Connector Limited
Peak Power, max, kW	40.0	Connector Limited
Average Power, max, kW @ 900 MHz	1.11	Cable Limited
dc Test Maximum Voltage	4,000	Connector Limited
RF Operating Voltage, max, VRMS	1,415	Connector Limited
RF High Potential, max, VRMS	1,980	
Inner Contact Resistance	0.80	MilliOhms
Outer Contact Resistance	1.50	MilliOhms
3rd Order IM, Product Typical @ 910 MHz, -dBm	-120	
3rd Order IM Test Method	Two +43 dBm Carriers	
Insulation Resistance, min, MOhms	5,000	Connector Limited
Shielding Effectiveness, dB	-110	
Nominal Impedence, Ohms	50	
Cable Impedence, Ohms	50	
Insertion Loss, max, dB	$0.05 \sqrt{\text{frequency(GHz)}}$	
Connector Return Loss, dB		
0 - 1 GHz	42	
1 - 4.2 GHz	35	
4.2 - 5 GHz	33	
5 - 5.2 GHz	25	

Mechanical

Inner Attachment Method	Solder on
Outer Attachment Method	Self flare
Connector Weight, kg (lb)	0.270 (0.595)
Pressurizable	No
Coupling Nut Retention Force, N (lb)	1,000.0 (224.8)
Method	MIL-C-39012C 3.25, 4.6.22
Minimum Coupling Nut Torque, N-m (lb-in)	25.0 (221.3)
Insertion Force, N (lb)	100.1 (22.5)
Method	MIL-C-39012C 3.5, 4.6.2
Minimum Connector Retention Tensile Force, N (lb)	890.0 (200.1)
Minimum Connector Retention Torque, N-m (lb-in)	5.4 (47.8)
Attachment Durability (Number of cycles)	25
Interface Durability (Number of cycles)	50

Environmental

Corrosion Test	IEC 68, part 2-11, Test Ka
Vibration Test	IEC 68, Part 2-6
Operating Temperature Range, °C	-40 to 85
Storage Temperature Range, °C	-40 to 85

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