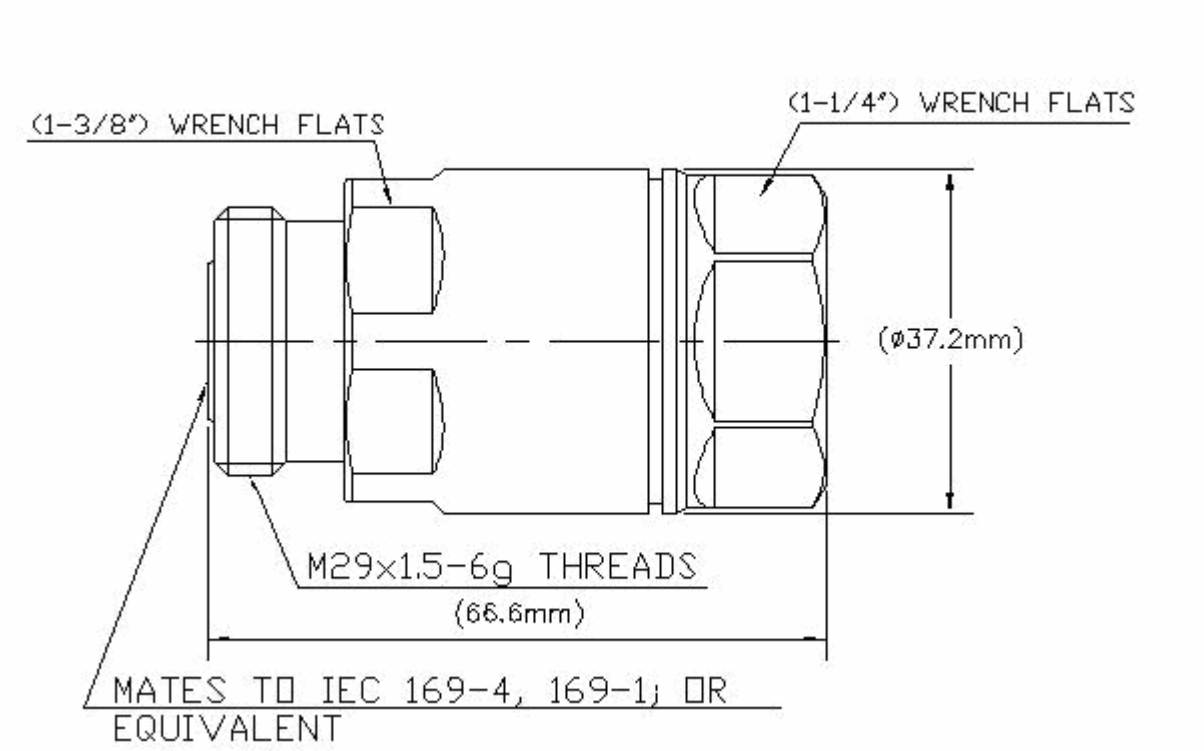
HELIAX®

Connector

PRODUCT SPECIFICATION

L5TDF-PS

7-16 DIN female, Positive Stop™, for 7/8" LDF5-50A cable



CHARACTERISTICS

Electrical

Recommended maximum operating frequency, GHz	5.00	Cable Limited
Peak power, max, kW	40.00	Connector Limited
Average power, max, kW @ 900 MHz	2.34	Connector Limited
dc test maximum voltage	4,000.00	Connector Limited
RF operating voltage, max, VRMS	1,415.00	Connector Limited
RF high potential, max, VRMS	1,980.00	Connector Limited
Inner contact resistance, milliohms (Outer)	0.80 (1.50)	
3rd order IM, product typical @ 910 MHz, -dBm (Method)	-116.00	
Insulation resistance, min, Megaohms	5,000.00	Connector Limited
Shielding effectiveness, dB	-130.00	
Connector impedance, ohms	50.00	
Cable impedance, ohms	50.00	
Insertion loss, max, dB	0.05 $\sqrt{\text{frequency(GHz)}}$	

Connector Return Loss, dB

Start		Stop	Return Loss
0.82	-	0.96 GHz	39.00
1.71	-	1.88 GHz	39.00
1.85	-	1.99 GHz	38.80
1.91	-	2.20 GHz	38.60
2.21	-	2.70 GHz	38.20

Customer Support Center:
From North America: 1-800-255-1479
International: +1-708-873-2307
www.andrew.com

22 June 2006

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Mechanical	
Inner attachment method	Captivated
Connector weight, g	259.00
Pressurizable	No
Insertion force, N (lb)	97.86 (22.00)
Method	MIL-C-39012C-3.12, 4.6.9
Minimum connector retention tensile force, N (lb)	1,334.47 (300.00)
Minimum connector retention torque, N-m (lb-in)	8.13 (72.00)
Attachment durability, number of cycles	25
Interface durability, number of cycles	500

Environmental	
Moisture resistance test	MIL-STD-202F, Method 106F
Mechanical shock test	MIL-STD-202F, Method 213B, Test Condition C
Corrosion test	MIL-STD-1344A, Method 1001.1, Test Cond. A
Thermal shock test	MIL-STD-202, Method 107, Cond A-1, Low Temp -55°C
Vibration test	IEC 68, Part 2-6
Operating temperature range, °C	-55.00°C - 85.00°C
Storage temperature range, °C	-55.00°C - 85.00°C
Immersion test, unmated connectors	IEC 529:1989,IP68
Immersion depth, m	1.00
Water jetting test, unmated connectors	IEC 529:1989,IP66

Components		
Front Body	Material:	Brass
	Exterior finish:	Trimetal Plate
Inner Contact	Material:	Phosphor Bronze
	Exterior finish:	Silver Plate
Clamp Nut	Material:	Brass
	Exterior finish:	Trimetal Plate
Slip Ring	Material:	Brass
	Exterior finish:	Trimetal Plate
Insulator	Material:	Polymethylpentene
Spring Ring	Material:	Spring Steel
	Exterior finish:	Passivate
O-Ring	Material:	Silicone Rubber
O-Ring	Material:	Silicone Rubber
O-Ring	Material:	Silicone Rubber
O-Ring	Material:	Silicone Rubber
Saw Guide	Material:	Nylon
LDF5-50A Cable Foam Separating Tool	Material:	Nylon