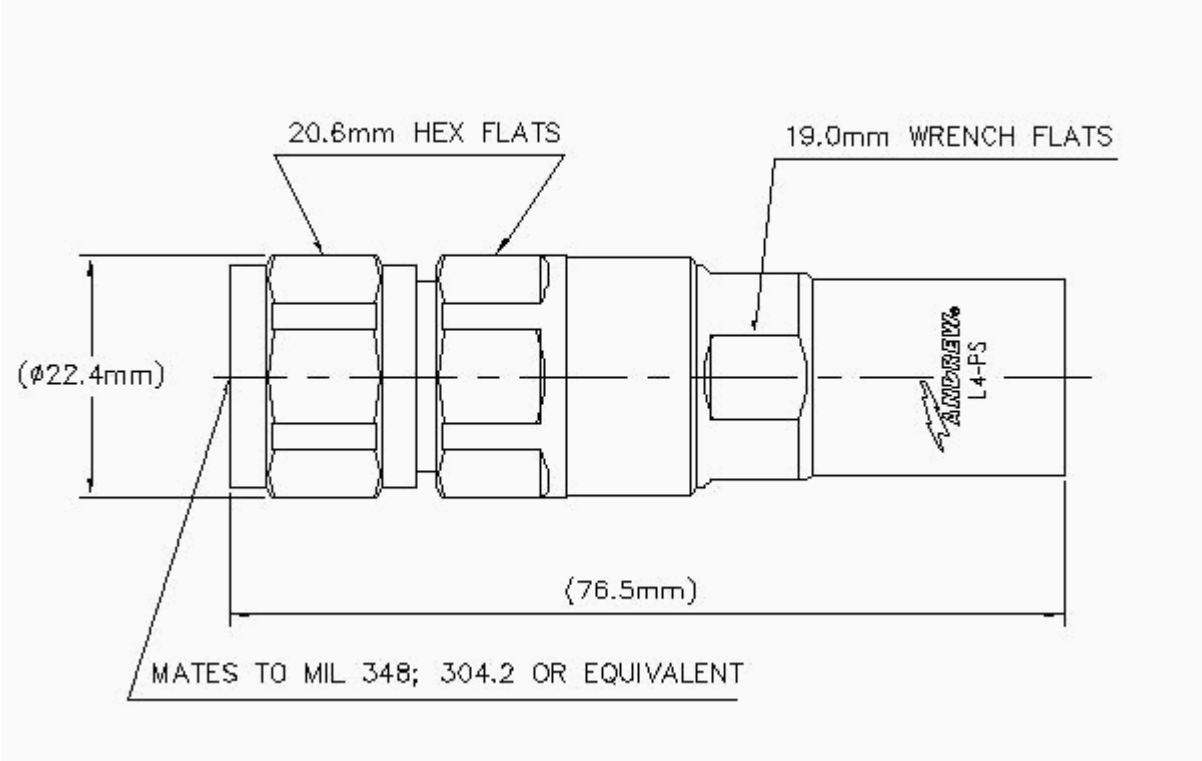
HELIAX®

Connector

PRODUCT SPECIFICATION

L4TNM-PS

N Male Positive Stop™, for 1/2" LDF4-50A cable



CHARACTERISTICS

Electrical

Recommended maximum operating frequency, GHz	8.80	Cable Limited
Peak power, max, kW	10.00	Connector Limited
Average power, max, kW @ 900 MHz	0.60	Connector Limited
dc test maximum voltage	2,000.00	Connector Limited
RF operating voltage, max, VRMS	707.00	Connector Limited
RF high potential, max, VRMS	990.00	Connector Limited
Inner contact resistance, milliohms (Outer)	0.30 (2.00)	
3rd order IM, product typical @ 910 MHz, -dBm (Method)	116.00	
Insulation resistance, min, Megaohms	5,000.00	
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
0.05	-	1.00 GHz	39.00
1.01	-	2.20 GHz	37.00
2.21	-	3.00 GHz	33.00
3.01	-	4.00 GHz	29.00
4.01	-	6.00 GHz	25.00
6.01	-	8.00 GHz	23.00

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

09 April 2007

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Mechanical	
Inner attachment method	Captivated
Connector weight, g	93.00
Pressurizable	No
Coupling nut retention force, N (lb)	444.82 (100.00)
Minimum coupling nut torque, N-m (lb-in)	176.26 (1,560.00)
Minimum connector retention tensile force, N (lb)	889.64 (200.00)
Minimum connector retention torque, N-m (lb-in)	5.42 (48.00)
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-202, Method 213, Condition I
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	MIL-STD-202F, Method 204D, Test Condition B
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
Water jetting test, unmated connectors	IEC 529:1989,IP66

Components		
N Male Front Body	Material:	Brass
	Exterior finish:	Trimetal Plate
N Male Insulator Assembly	Material:	Phosphor Bronze
	Exterior finish:	Silver Plate
Clamping Nut	Material:	Brass
	Exterior finish:	Trimetal Plate
Hex Coupling Nut	Material:	Brass
	Exterior finish:	Trimetal Plate
Spring Retaining Ring	Material:	Phosphor Bronze
Spring Ring	Material:	Stainless Steel
O-Ring	Material:	Silicone Rubber
O-Ring	Material:	Silicone Rubber
O-Ring	Material:	Silicone Rubber
Type N Gasket	Material:	Silicone Rubber