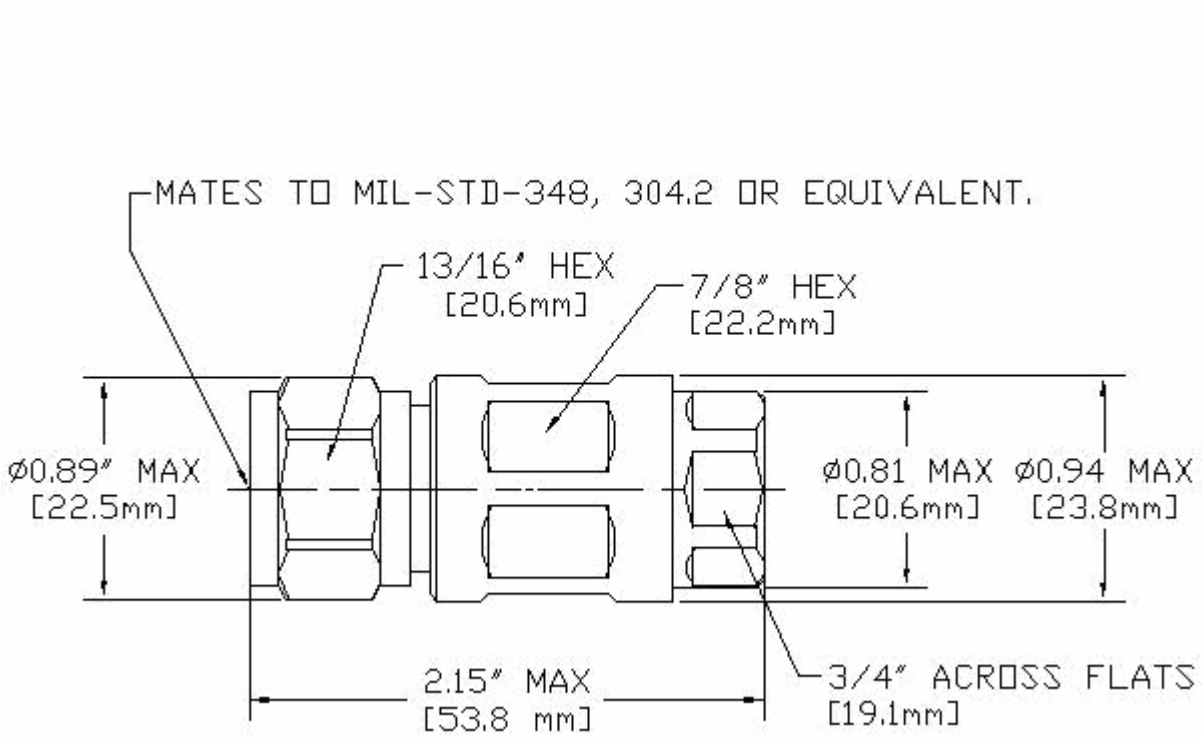
HELIAX®

Connector

PRODUCT SPECIFICATION

F4PNMV2-HC

Type N male for 1/2" FSJ4-50B cable



CHARACTERISTICS

Electrical

Recommended maximum operating frequency, GHz	10.20	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)	120.00	
Insulation resistance, min, Megaohms	5,000.00	Connector Limited
Shielding effectiveness, dB	-110.00	
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
0.00	-	1.00 GHz	36.00
1.01	-	2.00 GHz	35.00
2.01	-	3.00 GHz	28.00

Mechanical

Inner attachment method	Captivated

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

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Outer attachment method	Self-Flare
Connector weight, g	90.72
Pressurizable	No
Coupling nut retention force, N (lb)	445.00 (100.04)
Minimum coupling nut torque, N-m (lb-in)	1.70 (15.05)
Minimum connector retention tensile force, N (lb)	890.00 (200.08)
Minimum connector retention torque, N-m (lb-in)	5.40 (47.79)

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-202F,Method 107G,Test 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, mated connectors	IEC 529:1989,IP68
Immersion depth, m	1.00
Water jetting test, mated connectors	IEC 529:1989,IP66

Components

Inner Contact	Material:	Phosphor Bronze
	Exterior finish:	Gold Plate
Hex Coupling Nut	Material:	Brass
	Exterior finish:	Trimetal Plate
Spring Retaining Ring	Material:	Phosphor Bronze
Gasket	Material:	Silicone Rubber
Type N Gasket	Material:	Silicone Rubber
Body {Trimetal Plate}(F4pnmv2-Hc)	Material:	Brass
	Exterior finish:	Trimetal Plate
Clamp Nut/flare Ring Assembly	Material:	Brass
	Exterior finish:	Trimetal Plate
Shrink Tube	Material:	Polyolefin