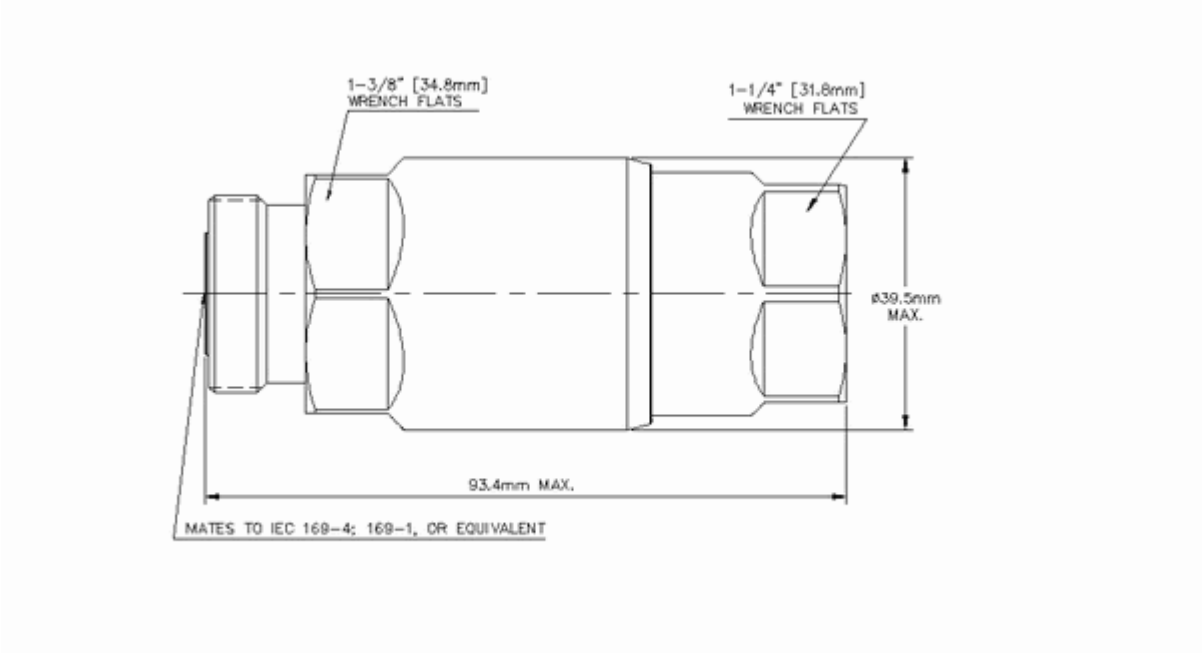
HELIAX®

Connector

PRODUCT SPECIFICATION

A5PDF-RPC

7-16 DIN Female, OnePiece® for AVA5-50



CHARACTERISTICS

Components

DIN FEMALE BODY	Material:	Brass
	Exterior finish:	Trimetal Plate
DIN F CONTACT	Material:	Phosphor Bronze
	Exterior finish:	Silver Plate
CLAMP NUT	Material:	Brass
	Exterior finish:	Trimetal Plate
CLAMP SLEEVE	Material:	Brass
	Exterior finish:	Trimetal Plate
INSULATOR	Material:	Polymethylpentene
O-RING	Material:	Silicone Rubber
O-RING	Material:	Silicone Rubber
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O-RING	Material:	Silicone Rubber
CUT-OFF GUIDE	Material:	Nylon
CABLE FOAM SEPARATING TOOL	Material:	Nylon

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	Cable 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

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

02 March 2004

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Inner contact resistance, milliohms (Outer)	0.80 (1.50)	
3rd order IM, product typical @ 910 MHz, -dBm (Method)	117.00	
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
0.45	-	1.00 GHz	40.00
1.01	-	2.00 GHz	38.00
2.01	-	3.00 GHz	33.00
3.01	-	4.00 GHz	29.00
4.01	-	5.20 GHz	26.00

Mechanical

Inner attachment method	Captivated
Outer attachment method	Ring-Flare
Connector weight, g	323.00
Pressurizable	No
Insertion force, N (lb)	200.00 (44.96)
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 (71.96)
Attachment durability, number of cycles	25
Interface durability, number of cycles	50

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, unmated connectors	IEC 529:1989,IP68
Immersion depth, m	0.31
Water jetting test, unmated connectors	IEC 529:1989,IP66