Product Specifications

R6PDF-PSA
7-16 DIN Female Positive Stop™ for 1-1/4 in RCT RADIAX® Radiating cable

CHARACTERISTICS

General Specifications

Interface	7-16 DIN Female
Body Style	Straight
Brand	RADIAX®
Mounting Angle	Straight

Electrical Specifications

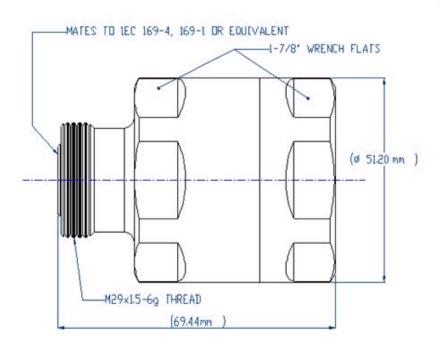|	
Connector Impedance	50 ohm
Operating Frequency Band	0 – 2700 MHz
Cable Impedance	50 ohm
RF Operating Voltage, maximum (vrms)	1415.00 V
dc Test Voltage	4000 V
Outer Contact Resistance, maximum	1.50 mOhm
Inner Contact Resistance, maximum	0.80 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	3.0 kW @ 900 MHz
Peak Power, maximum	40.00 kW
Insertion Loss, typical	0.05 dB

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Outline Drawing

MATES TO IEC 169-4, 169-1 OR EQUIVALENT

1-7/8" WRENCH FLATS

(ø 51.20 mm)

M29x1.5-6g THREAD

(69.44mm)

Mechanical Specifications

Outer Contact Attachment Method	Compression
Inner Contact Attachment Method	Thread-in stub
Outer Contact Plating	Trimetal
Inner Contact Plating	Silver
Attachment Durability	25 cycles
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Connector Retention Tensile Force	979 N•m
Insertion Force	200.17 N	45.00 lbf
Insertion Force Method	IEC 61169-1:15.2.4
Pressurizable	No

Dimensions

Nominal Size	1-1/4 in
Diameter	51.20 mm	2.02 in
Length	69.44 mm	2.73 in
Weight	420.00 g	0.93 lb

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Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Mechanical Shock Test Method	MIL-STD-202F, Method 213B, Test Condition C
Thermal Shock Test Method	MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C
Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A

Standard Conditions

Attenuation, Ambient Temperature	20 °C	68 °F
Average Power, Ambient Temperature	40 °C	104 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
50–1000 MHz	1.11	26.00
1010–2000 MHz	1.11	26.00
2010–2400 MHz	1.11	26.00
2400–2700 MHz	1.11	26.00

* Footnotes

Insertion Loss, typical $0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)