

Product Specifications



75AR

7/8 in EIA Male Flange without gas barrier for 7/8 in HJ5-50 air dielectric cable



CHARACTERISTICS

General Specifications

Interface	7/8 in EIA Male Flange
Body Style	Straight
Gas Barrier	No
Mounting Angle	Straight

Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 5200 MHz
Average Power	3.5 kW @ 900 MHz
Cable Impedance	50 ohm
dc Test Voltage	6 kV
Insertion Loss, typical	0.05 dB
Insulation Resistance, minimum	5000 MOhm
Peak Power, maximum	90.00 kW
RF Operating Voltage, maximum (vrms)	2121.00 V

Mechanical Specifications

Outer Contact Attachment Method	Tab-flare
Inner Contact Attachment Method	Self-tapping
Inner Contact Plating	Silver
Interface Durability	50 cycles
Interface Durability Method	MIL-C-39012, Section 4.6.12

Dimensions

Nominal Size	7/8 in
Diameter, maximum	2.27 in 57.56 mm
Length	3.50 in 88.90 mm
Weight	0.57 kg 1.26 lb

Environmental Specifications

Corrosion Test Method	MIL-STD-202, Method 101, Test Condition B
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Product Specifications



Mechanical Shock Test Method	MIL-STD-202, Method 213, Test Condition I
Moisture Resistance Test Method	MIL-STD-202, Method 106
Operating Temperature	-40 °C to +150 °C (-40 °F to +302 °F)
Storage Temperature	-70 °C to +100 °C (-94 °F to +212 °F)
Thermal Shock Test Method	MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C
Vibration Test Method	MIL-STD-202, Method 204, Test Condition B

Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–1000 MHz	1.03	36.00
1000–2000 MHz	1.07	29.00

* Footnotes

Insertion Loss, typical	$0.05 \sqrt{f_{\text{freq}}}$ (GHz) (not applicable for Elliptical Waveguide)
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