

Product Specifications



82GF

3-1/8 in EIA Female Flange with gas barrier for 2-1/4 in HJ12-50 air dielectric cable



CHARACTERISTICS

General Specifications

Interface	3-1/8 in EIA Female Flange
Body Style	Straight
Gas Barrier	Yes
Mounting Angle	Straight

Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 1640 MHz
Average Power	16.0 kW @ 900 MHz
Cable Impedance	50 ohm
dc Test Voltage	19 kV
Insertion Loss, typical	0.05 dB
Insulation Resistance, minimum	5000 MOhm
Peak Power, maximum	902.00 kW
RF Operating Voltage, maximum (vrms)	6717.00 V

Mechanical Specifications

Outer Contact Attachment Method	Tab-flare
Inner Contact Attachment Method	Thread-in stub
Inner Contact Plating	Silver
Outer Contact Plating	Unplated

Dimensions

Nominal Size	2-1/4 in
Diameter, maximum	5.19 in 131.75 mm
Length	6.66 in 169.19 mm
Weight	4.78 kg 10.54 lb

Environmental Specifications

Operating Temperature	-40 °C to +150 °C (-40 °F to +302 °F)
Storage Temperature	-70 °C to +100 °C (-94 °F to +212 °F)

Product Specifications



Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–2200 MHz	1.01	44.00
2200–3000 MHz	1.02	39.00

* Footnotes

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