

82GF



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

OBSOLETE

Product Classification

Product Type	Air coaxial connector
Product Brand	HELIAX®

General Specifications

Body Style	Straight
Cable Family	HJ12-50
Gas Barrier	Yes
Inner Contact Attachment Method	Thread-in stub
Inner Contact Plating	Silver
Interface	3-1/8 in EIA Female Flange
Mounting Angle	Straight
Outer Contact Attachment Method	Tab-flare
Outer Contact Plating	Unplated

Dimensions

Length	169.164 mm 6.66 in
Diameter	131.826 mm 5.19 in
Nominal Size	2-1/4 in

Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	16.0 kW @ 900 MHz

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Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	19 kV
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 1640 MHz
Peak Power, maximum	902 kW
RF Operating Voltage, maximum (vrms)	6717 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–2200 MHz	1.02	44
2200–3000 MHz	1.03	39

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)

Packaging and Weights

Weight, net	4.78 kg 10.538 lb
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Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



* Footnotes

Insertion Loss, typical	0.05v ⁻ freq (GHz) (not applicable for elliptical waveguide)
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