

82RF



3-1/8 in EIA Female Flange without 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	No
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)
450–1000 MHz	1.03	40
1000–2000 MHz	1.03	38
2000–3000 MHz	1.05	33
3000–4000 MHz	1.03	39
4000–5200 MHz	1.11	26

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	4.66 kg 10.274 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	0.05v̄freq (GHz) (not applicable for elliptical waveguide)
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