



H7FB-014-S

7/8 in EIA Male Flange with gas barrier with gas barrier for 1-5/8 in HJ7-50A air dielectric cable

General Specifications

Interface	7/8 in EIA Male Flange
Body Style	Straight
Brand	HELIAX®
Gas Barrier	Yes
Mounting Angle	Straight
Ordering Note	Gas pass version can be created by drilling out the PTFE dielectric

Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 2700 MHz
Cable Impedance	50 ohm
RF Operating Voltage, maximum (vrms)	2121.00 V
dc Test Voltage	6 kV
Insulation Resistance, minimum	5000 MOhm
Average Power	3.5 kW @ 900 MHz
Peak Power, maximum	90.00 kW
Insertion Loss, typical	0.05 dB

Mechanical Specifications

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

Dimensions

Nominal Size	1-5/8 in
Diameter	72.00 mm 2.83 in
Length	130.00 mm 5.12 in
Weight	1.40 kg 3.09 lb

Environmental Specifications

Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)

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Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
0–1000 MHz	1.02	40.09
1000–2200 MHz	1.04	34.15
2200–2700 MHz	1.06	30.71

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



* Footnotes

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