

# H7FB-110-S



1-5/8 in EIA Female Flange with gas barrier for 1-5/8 in HJ7-50A air dielectric cable. Coupling Element, O-Ring, screw-set sold separately. Click-on: [Related Products](#), [Device connectors and Adapters](#)

## Product Classification

<b>Brand</b>	HELIAX®
<b>Product Type</b>	Air coaxial connector

## General Specifications

<b>Interface</b>	1-5/8 in EIA Male Flange
<b>Body Style</b>	Straight
<b>Gas Barrier</b>	Yes
<b>Mounting Angle</b>	Straight
<b>Ordering Note</b>	Gas pass version can be created by drilling out the PTFE dielectric

## Electrical Specifications

<b>Connector Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	0 – 2700 MHz
<b>Cable Impedance</b>	50 ohm
<b>RF Operating Voltage, maximum (vrms)</b>	3880.00 V
<b>dc Test Voltage</b>	11 kV
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Average Power</b>	4.9 kW @ 900 MHz
<b>Peak Power, maximum</b>	300.00 kW
<b>Insertion Loss, typical</b>	0.05 dB

## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Tab-flare
<b>Inner Contact Attachment Method</b>	Thread-in stub
<b>Outer Contact Plating</b>	Silver
<b>Inner Contact Plating</b>	Silver

## Dimensions

<b>Nominal Size</b>	1-5/8 in
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<b>Diameter</b>	88.50 mm   3.48 in
<b>Length</b>	141.00 mm   5.55 in
<b>Weight</b>	1.40 kg   3.09 lb

## Environmental Specifications

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

## 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
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)



## \* Footnotes

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