

# 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

|               |                                                                     |
|---------------|---------------------------------------------------------------------|
| Product Type  | Air coaxial connector                                               |
| Product Brand | HELIAX®                                                             |
| Ordering Note | Gas pass version can be created by drilling out the PTFE dielectric |

## General Specifications

|                                 |                          |
|---------------------------------|--------------------------|
| Body Style                      | Straight                 |
| Cable Family                    | HJ7-50A                  |
| Gas Barrier                     | Yes                      |
| Inner Contact Attachment Method | Thread-in stub           |
| Inner Contact Plating           | Silver                   |
| Interface                       | 1-5/8 in EIA Male Flange |
| Mounting Angle                  | Straight                 |
| Outer Contact Attachment Method | Tab-flare                |
| Outer Contact Plating           | Silver                   |

## Dimensions

|              |                     |
|--------------|---------------------|
| Length       | 5.55 in   140.97 mm |
| Diameter     | 3.48 in   88.392 mm |
| Nominal Size | 1-5/8 in            |

## Electrical Specifications

|                            |                  |
|----------------------------|------------------|
| Insertion Loss, typical    | 0.05 dB          |
| Average Power at Frequency | 4.9 kW @ 900 MHz |
| Cable Impedance            | 50 ohm           |
| Connector Impedance        | 50 ohm           |

# H7FB-110-S

|                                      |              |
|--------------------------------------|--------------|
| dc Test Voltage                      | 11 kV        |
| Insulation Resistance, minimum       | 5000 MOhm    |
| Operating Frequency Band             | 0 – 2700 MHz |
| Peak Power, maximum                  | 300 kW       |
| RF Operating Voltage, maximum (vrms) | 3880 V       |

## VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 0–1000 MHz     | 1.02 | 40.09            |
| 1000–2200 MHz  | 1.04 | 34.16            |
| 2200–2700 MHz  | 1.06 | 30.72            |

## 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) |

## Packaging and Weights

|             |                   |
|-------------|-------------------|
| Weight, net | 1.4 kg   3.086 lb |
|-------------|-------------------|

## Regulatory Compliance/Certifications

| Agency        | Classification                                                                                                                 |
|---------------|--------------------------------------------------------------------------------------------------------------------------------|
| CHINA-ROHS    | Below maximum concentration value                                                                                              |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system                                                 |
| REACH-SVHC    | Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant                                                                                                                      |



## \* Footnotes

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| Insertion Loss, typical | 0.05√freq (GHz) (not applicable for elliptical waveguide) |
|-------------------------|-----------------------------------------------------------|