

H8FB-302-S



3-1/8 in EIA Female Flange with gas barrier for 3 in HJ8-50B 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 Male version can be created ordering an appropriate coupling element separately When ordering factory assembled transmission lines gas pass/barrier option can be fitted

General Specifications

Body Style	Straight
Cable Family	HJ8-50B
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	Silver

Dimensions

Length	163.068 mm 6.42 in
Diameter	135.382 mm 5.33 in
Nominal Size	3 in

Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	10.9 kW @ 960 MHz

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Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	16 kV
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 1640 MHz
Peak Power, maximum	640 kW
RF Operating Voltage, maximum (vrms)	5656 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–960 MHz	1.02	40.09
960–1640 MHz	1.04	34.16

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	5.5 kg 12.125 lb
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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 www.commscope.com/ProductCompliance
ROHS	Compliant



* Footnotes

Insertion Loss, typical	0.05v ⁻¹ freq (GHz) (not applicable for elliptical waveguide)
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