



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	140.97 mm 5.55 in
Diameter	88.392 mm 3.48 in
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
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
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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 ⁻ freq (GHz) (not applicable for elliptical waveguide)
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