



7-16 DIN Female with gas barrier for 7/8 in HJ5-50 air dielectric cable

Product Classification

Brand	HELIAX®
Product Type	Air coaxial connector

General Specifications

Interface	7-16 DIN Female
Body Style	Straight
Gas Barrier	Yes
Mounting Angle	Straight

Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 5200 MHz
Cable Impedance	50 ohm
RF Operating Voltage, maximum (vrms)	1415.00 V
dc Test Voltage	4 kV
Insulation Resistance, minimum	5000 MOhm
Average Power	2.2 kW @ 960 MHz
Peak Power, maximum	40.00 kW
Insertion Loss, typical	0.05 dB

Mechanical Specifications

Outer Contact Attachment Method	Tab-flare
Inner Contact Attachment Method	Spring fingers
Outer Contact Plating	Silver
Inner Contact Plating	Silver

Dimensions

Nominal Size	7/8 in
Diameter	41.50 mm 1.63 in

H5PDF-S

Length 75.70 mm | 2.98 in
Weight 0.40 kg | 0.88 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)
Vibration Test Method IEC 60068-2-6
Corrosion Test Method IEC 60068-2-11, Test Condition Ka

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.02	40.09
1000–2200 MHz	1.03	36.61
2200–4000 MHz	1.08	28.3
4000–5700 MHz	1.15	23.13

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015
China RoHS SJ/T 11364-2014

Classification

Compliant by Exemption
Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)



* Footnotes

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