

POWERED BY

**H5PDF****7-16 DIN Female with gas barrier for 7/8 in HJ5-50 air dielectric cable**

General Specifications

Interface	7-16 DIN Female
Body Style	Straight
Brand	HELIAX®
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	3.0 kW @ 900 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	Self-tapping
Outer Contact Plating	Silver
Inner Contact Plating	Silver
Interface Durability	500 cycles
Interface Durability Method	DIN 47275, Part 2/10.82, Section 2.10

Dimensions

Nominal Size	7/8 in
Diameter	37.59 mm 1.48 in
Length	86.61 mm 3.41 in
Weight	0.42 kg 0.92 lb

Environmental Specifications

Operating Temperature	-40 °C to +150 °C (-40 °F to +302 °F)
Storage Temperature	-70 °C to +100 °C (-94 °F to +212 °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)
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45–1000 MHz	1.02	41.00
1000–2000 MHz	1.03	36.00
2000–2700 MHz	1.05	32.00
2700–3500 MHz	1.06	31.00
3500–4400 MHz	1.11	26.00

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
China RoHS SJ/T 11364-2006
ISO 9001:2008

Classification

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



* Footnotes

Insertion Loss, typical $0.05\sqrt{\text{freq (GHz)}}$ (not applicable for elliptical waveguide)