



H7PDF

7-16 DIN Female with gas barrier for 1-5/8 in HJ7-50A air dielectric cable

OBSOLETE

This product was discontinued on: April 1, 2014

Replaced By

H7PDF-S

7-16 DIN Female with gas barrier for 1-5/8 in HJ7-50A 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 – 2700 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	Thread-in stub
Outer Contact Plating	Silver
Inner Contact Plating	Silver

Dimensions

Nominal Size	1-5/8 in
Diameter	60.43 mm 2.38 in
Length	106.30 mm 4.19 in
Weight	1.18 kg 2.60 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)

Return Loss/VSWR

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Frequency Band	VSWR	Return Loss (dB)
50–1000 MHz	1.03	36.00
1000–2500 MHz	1.06	31.00
2500–5000 MHz	1.08	28.00
5000–7000 MHz	1.22	20.00

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)