

H5PDM



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

OBSOLETE

This product was discontinued on: April 1, 2014

Replaced By:

AC78DMS	7-16 DIN Male for with gas barrier 7/8 in HJ5-50 air dielectric cable
H5PDM-S	7-16 DIN Male for with gas barrier 7/8 in HJ5-50 air dielectric cable

Product Classification

Product Type	Air coaxial connector
Product Brand	HELIAX®

General Specifications

Body Style	Straight
Cable Family	HJ5-50
Gas Barrier	Yes
Inner Contact Attachment Method	Self-tapping
Inner Contact Plating	Silver
Interface	7-16 DIN Male
Mounting Angle	Straight
Outer Contact Attachment Method	Tab-flare
Outer Contact Plating	Silver

Dimensions

Length	3.53 in 89.662 mm
Diameter	1.48 in 37.592 mm
Nominal Size	7/8 in

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Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	3.0 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	4 kV
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 5200 MHz
Peak Power, maximum	40 kW
RF Operating Voltage, maximum (vrms)	1415 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.02	41
1000–2000 MHz	1.04	36
2000–2700 MHz	1.06	32
2700–3500 MHz	1.06	31
3500–4400 MHz	1.08	29

Mechanical Specifications

Interface Durability	500 cycles
Interface Durability Method	DIN 47275, Part 2/10.82, Section 2.10

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)
Corrosion Test Method	IEC 60068-2-11, Test Condition Ka
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Weight, net	0.42 kg 0.926 lb
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Regulatory Compliance/Certifications

Agency	Classification
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ISO 9001:2015

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)