H5PDM-S

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

OBSOLETE

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	81.026 mm | 3.19 in
Diameter	41.402 mm | 1.63 in
Nominal Size	7/8 in

Electrical Specifications

Insertion Loss, typical	0.05 dB
Average Power at Frequency	2.2 kW @ 960 MHz

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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	1.33	17.05
1000–2200 MHz	1.34	16.89
2200–4000 MHz	1.38	16.11
4000–5200 MHz	1.43	15.13

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 +85 °C (-40 °F to +185 °F)
Storage Temperature	-70 °C to +85 °C (-94 °F to +185 °F)
Corrosion Test Method	IEC 60068-2-11, Test Condition Ka
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Weight, net	0.55 kg | 1.213 lb

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

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UK-ROHS	Compliant

* Footnotes

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