

H4.5PDM



7-16 DIN Male with gas barrier for 5/8 in HJ4.5-50 air dielectric cable

OBSOLETE

This product was discontinued on: December 9, 2008

Product Classification

Product Type	Air coaxial connector
Product Brand	HELIAX®

General Specifications

Body Style	Straight
Cable Family	HJ4.5-50
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	85.852 mm 3.38 in
Diameter	34.036 mm 1.34 in
Nominal Size	5/8 in

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

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dc Test Voltage	4 kV
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6600 MHz
Peak Power, maximum	40 kW
RF Operating Voltage, maximum (vrms)	1415 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
450–1000 MHz	1.02	40.09
1000–2000 MHz	1.023	38.89
2000–3000 MHz	1.025	38.17
3000–4000 MHz	1.029	36.9
4000–5200 MHz	1.094	26.96

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)

Packaging and Weights

Weight, net	0.37 kg 0.816 lb
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* Footnotes

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