

# H4.5PDM



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

**OBSOLETE**

## Product Classification

<b>Product Type</b>	Air coaxial connector
<b>Product Brand</b>	HELIAX®

## General Specifications

<b>Body Style</b>	Straight
<b>Cable Family</b>	HJ4.5-50
<b>Gas Barrier</b>	Yes
<b>Inner Contact Attachment Method</b>	Self-tapping
<b>Inner Contact Plating</b>	Silver
<b>Interface</b>	7-16 DIN Male
<b>Mounting Angle</b>	Straight
<b>Outer Contact Attachment Method</b>	Tab-flare
<b>Outer Contact Plating</b>	Silver

## Dimensions

<b>Length</b>	85.852 mm   3.38 in
<b>Diameter</b>	34.036 mm   1.34 in
<b>Nominal Size</b>	5/8 in

## Electrical Specifications

<b>Insertion Loss, typical</b>	0.05 dB
<b>Average Power at Frequency</b>	3.0 kW @ 900 MHz

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<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>dc Test Voltage</b>	4 kV
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 6600 MHz
<b>Peak Power, maximum</b>	40 kW
<b>RF Operating Voltage, maximum (vrms)</b>	1415 V

## VSWR/Return Loss

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
<b>450–1000 MHz</b>	1.03	40
<b>1000–2000 MHz</b>	1.03	40
<b>2000–3000 MHz</b>	1.03	38
<b>3000–4000 MHz</b>	1.03	37
<b>4000–5200 MHz</b>	1.1	27

## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +150 °C (-40 °F to +302 °F)
<b>Storage Temperature</b>	-70 °C to +100 °C (-94 °F to +212 °F)

## Packaging and Weights

<b>Weight, net</b>	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)