

# H5PDM-S

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

## 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>	HJ5-50
<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>	81.026 mm   3.19 in
<b>Diameter</b>	41.402 mm   1.63 in
<b>Nominal Size</b>	7/8 in

## Electrical Specifications

<b>Insertion Loss, typical</b>	0.05 dB
<b>Average Power at Frequency</b>	2.2 kW @ 960 MHz
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>dc Test Voltage</b>	4 kV

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<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 5200 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>45–1000 MHz</b>	1.33	17.05
<b>1000–2200 MHz</b>	1.34	16.89
<b>2200–4000 MHz</b>	1.38	16.11
<b>4000–5200 MHz</b>	1.43	15.13

## Mechanical Specifications

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

## Environmental Specifications

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

## Packaging and Weights

<b>Weight, net</b>	0.55 kg   1.213 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant



### \* Footnotes

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