

# H5PDM-S

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



## Product Classification

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

## General Specifications

<b>Interface</b>	7-16 DIN Male
<b>Body Style</b>	Straight
<b>Gas Barrier</b>	Yes
<b>Mounting Angle</b>	Straight

## Electrical Specifications

<b>Connector Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	0 – 5200 MHz
<b>Cable Impedance</b>	50 ohm
<b>RF Operating Voltage, maximum (vrms)</b>	1415.00 V
<b>dc Test Voltage</b>	4 kV
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Average Power</b>	2.2 kW @ 960 MHz
<b>Peak Power, maximum</b>	40.00 kW
<b>Insertion Loss, typical</b>	0.05 dB

## Mechanical Specifications

<b>Outer Contact Attachment Method</b>	Tab-flare
<b>Inner Contact Attachment Method</b>	Self-tapping
<b>Outer Contact Plating</b>	Silver
<b>Inner Contact Plating</b>	Silver
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	DIN 47275, Part 2/10.82, Section 2.10

## Dimensions

# H5PDM-S

---

<b>Nominal Size</b>	7/8 in
<b>Diameter</b>	41.40 mm   1.63 in
<b>Length</b>	81.03 mm   3.19 in
<b>Weight</b>	0.55 kg   1.21 lb

## 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>Vibration Test Method</b>	IEC 60068-2-6
<b>Corrosion Test Method</b>	IEC 60068-2-11, Test Condition Ka

## Return Loss/VSWR

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
45–1000 MHz	1.33	17.05
1000–2200 MHz	1.33	16.89
2200–4000 MHz	1.37	16.11
4000–5200 MHz	1.42	15.13

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)



## \* Footnotes

**Insertion Loss, typical** 0.05vfreq (GHz) (not applicable for elliptical waveguide)