



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

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	Spring fingers
Inner Contact Plating	Silver
Interface	7-16 DIN Female
Mounting Angle	Straight
Outer Contact Attachment Method	Tab-flare
Outer Contact Plating	Silver

Dimensions

Length	75.692 mm 2.98 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
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	1.02	40.09
1000–2200 MHz	1.03	36.61
2200–4000 MHz	1.08	28.3
4000–5700 MHz	1.15	23.13

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	0.4 kg 0.882 lb
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Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted



* Footnotes

Insertion Loss, typical	0.05v ⁻¹ freq (GHz) (not applicable for elliptical waveguide)
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