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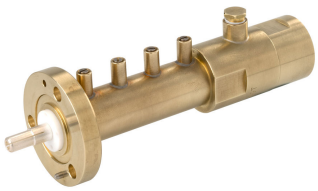

Tunable 7/8 in EIA Male Flange with gas barrier for 7/8 in HJ5-50 air dielectric cable

OBSOLETE

This product was discontinued on: September 30, 2012

Product Classification

Product Type	Air coaxial connector
Product Brand	HELIAX®

General Specifications

Body Style	Straight, tunable
Cable Family	HJ5-50
Gas Barrier	Yes
Inner Contact Attachment Method	Self-tapping
Inner Contact Plating	Silver
Interface	7/8 in EIA Male Flange
Mounting Angle	Straight
Outer Contact Attachment Method	Tab-flare
Outer Contact Plating	Unplated

Dimensions

Length	149.352 mm | 5.88 in
Diameter	57.912 mm | 2.28 in
Nominal Size	7/8 in

Electrical Specifications

Insertion Loss, typical	0.05 dB

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Average Power at Frequency	3.5 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	6 kV
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 5200 MHz
Peak Power, maximum	90 kW
RF Operating Voltage, maximum (vrms)	2121 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.04	36
1000–2500 MHz	1.06	31
2500–5000 MHz	1.1	27
5000–7000 MHz	1.14	24
7000–8000 MHz	1.2	21
8000–8800 MHz	1.33	17

Mechanical Specifications

Interface Durability	50 cycles
Interface Durability Method	MIL-C-39012, Section 4.6.12
Mechanical Shock Test Method	MIL-STD-202, Method 213, Test Condition I

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)
Corrosion Test Method	MIL-STD-202, Method 101, Test Condition B
Moisture Resistance Test Method	MIL-STD-202, Method 106
Thermal Shock Test Method	MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C
Vibration Test Method	MIL-STD-202, Method 204, Test Condition B

Packaging and Weights

Weight, net	0.78 kg | 1.72 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

* Footnotes

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