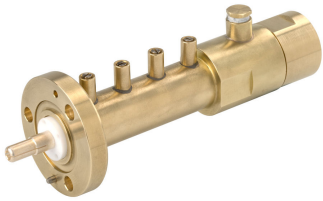# 75ART

Tunable 7/8 in EIA Male Flange without 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	No
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

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	0.71 kg	1.565 lb

Regulatory Compliance/Certifications

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

* Footnotes

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

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