Product Specifications





78AS

1-5/8 in EIA Male Flange without gas barrier for 3 in HJ8-50B air dielectric cable

OBSOLETE

This product was discontinued on: April 1, 2014

General Specifications

Interface 1-5/8 in EIA Male Flange

Body Style Straight
Brand HELIAX®
Gas Barrier No
Mounting Angle Straight

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band 0 - 1640 MHz

Cable Impedance 50 ohm

RF Operating Voltage, maximum (vrms) 3880.00 V

dc Test Voltage 11 kV

Insulation Resistance, minimum 5000 MOhm

Average Power 4.9 kW @ 900 MHz

Peak Power, maximum 300.00 kW Insertion Loss, typical 0.05 dB

Mechanical Specifications

Outer Contact Attachment Method Tab-flare
Inner Contact Attachment Method Thread-in stub
Outer Contact Plating Unplated
Inner Contact Plating Unplated

Dimensions

Nominal Size 3 in

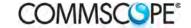
 Diameter
 91.82 mm | 3.62 in

 Length
 98.43 mm | 3.88 in

 Weight
 3.30 kg | 7.28 lb

Environmental Specifications

Product Specifications



78AS

Operating Temperature $-40 \, ^{\circ}\text{C} \text{ to } +150 \, ^{\circ}\text{C} \text{ (-40 } ^{\circ}\text{F to } +302 \, ^{\circ}\text{F)}$ Storage Temperature $-70 \, ^{\circ}\text{C} \text{ to } +100 \, ^{\circ}\text{C} \text{ (-94 } ^{\circ}\text{F to } +212 \, ^{\circ}\text{F)}$

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)	
450-1000 MHz	1.02	40.00	
1000-2000 MHz	1.03	38.00	
2000-3000 MHz	1.05	33.00	
3000-4000 MHz	1.02	39.00	
4000-5200 MHz	1.11	26.00	

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system

* Footnotes

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