

**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

78AS

Operating Temperature	-40 °C to +150 °C (-40 °F to +302 °F)
Storage Temperature	-70 °C to +100 °C (-94 °F to +212 °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<sup>-</sup>freq (GHz) (not applicable for elliptical waveguide)