Product Specifications







AL5DF-PSA

7-16 DIN Female Positive Stop™ for 7/8 in AL5-50 and AVA5-50 cable

General Specifications

Interface 7-16 DIN Female

Body Style Straight

Brand HELIAX® | Positive Stop™

Mounting Angle Straight

Electrical Specifications

Connector Impedance 50 ohm

Operating Frequency Band 0 – 5200 MHz

Cable Impedance 50 ohm

3rd Order IMD, typical -120 dBm @ 910 MHz 3rd Order IMD Test Method Two +43 dBm carriers

RF Operating Voltage, maximum (vrms) 1415.00 V
dc Test Voltage 4000 V
Outer Contact Resistance, maximum 1.50 mOhm
Inner Contact Resistance, maximum 0.40 mOhm
Insulation Resistance, minimum 5000 MOhm

Average Power 3.0 kW @ 900 MHz

Peak Power, maximum 40.00 kW Insertion Loss, typical 0.05 dB Shielding Effectiveness -130 dB

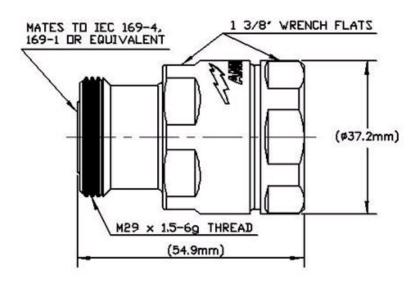
Product Specifications



AL5DF-PSA

Outline Drawing





Mechanical Specifications

Outer Contact Attachment Method Ring-flare
Inner Contact Attachment Method Captivated
Outer Contact Plating Trimetal
Inner Contact Plating Silver
Attachment Durability 25 cycles

Interface Durability 50 cycles

Interface Durability Method IEC 61169-4:9.5

Connector Retention Tensile Force 1334 N | 300 lbf

Connector Retention Torque 8.13 N-m | 72.00 in lb

Insertion Force Method IEC 61169-1:15.2.4

Pressurizable No

Dimensions

Nominal Size 7/8 in

Environmental Specifications

Operating Temperature -55 °C to +85 °C (-67 °F to +185 °F) Storage Temperature -55 °C to +85 °C (-67 °F to +185 °F)

Immersion Depth 1 m
Immersion Test Mating Unmated

Product Specifications



on the go

AL5DF-PSA

Immersion Test Method IEC 60529:2001, IP68

Water Jetting Test Mating Unmated

Water Jetting Test Method IEC 60529:2001, IP66 Moisture Resistance Test Method MIL-STD-202F, Method 106F

Mechanical Shock Test Method MIL-STD-202F, Method 213B, Test Condition C

Thermal Shock Test Method MIL-STD-202F, Method 107G, Test Condition A-1, Low Temperature -55 °C

Vibration Test Method

Corrosion Test Method MIL-STD-1344A, Method 1001.1, Test Condition A

Standard Conditions

Attenuation, Ambient Temperature 20 °C | 68 °F Average Power, Ambient Temperature 40 °C | 104 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
824-1019 MHz	1.02	39.00
1710-1044 MHz	1.02	39.00
1850-1990 MHz	1.02	38.80
1910-2200 MHz	1.03	37.50
2200-2700 MHz	1.03	35.60
3010-4000 MHz	1.13	24.60
4010-5200 MHz	1.21	20.60

Regulatory Compliance/Certifications

Agency

RoHS 2002/95/EC

China RoHS SJ/T 11364-2006

ISO 9001:2008

Classification

Compliant by Exemption

Above Maximum Concentration Value (MCV)

Designed, manufactured and/or distributed under this quality management system





* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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