APG-BDFDM-090



Arrestor Plus® Gas Tube Surge Arrestor (90 V), 45–2200 MHz, with interface types DIN Female Bulkhead and DIN Male

Product Classification

Product Type Surge arrestor

Ordering Note CommScope® non-standard product

General Specifications

Device Typedc PassBody StyleBulkheadInner Contact PlatingSilver

Interface 7-16 DIN Female Bulkhead

Interface 2 7-16 DIN Male

Outer Contact Plating Trimetal

Pressurizable No

Dimensions

 Height
 39.88 mm | 1.57 in

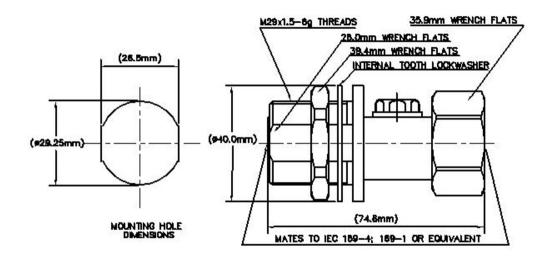
 Width
 39.88 mm | 1.57 in

 Length
 74.93 mm | 2.95 in

Outline Drawing



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Electrical Specifications

Insertion Loss, typical 0.1 dB

Average Power 30 W

Connector Impedance 50 ohm

Gas Tube Voltage 90 V

Lightning Surge Current 20 kA

Lightning Surge Current Waveform 8/20 waveform

Operating Frequency Band 1000 – 2000 MHz | 2000 – 2200 MHz | 45 – 1000 MHz

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45-1000 MHz	1.101	26.36
1000-2000 MHz	1.152	23.02
2000-2200 MHz	1.173	21.98

Mechanical Specifications

Attachment Durability 25 cycles

Coupling Nut Proof Torque24.86 N-m220.03 in lbCoupling Nut Retention Force1,000.85 N225 lbfCoupling Nut Retention Force MethodMIL-C-39012C-3.25, 4.6.22

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Interface Durability 500 cycles

Interface Durability Method IEC 61169-16:9.5

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

Environmental Specifications

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

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

Attenuation, Ambient Temperature $20 \, ^{\circ}\text{C} \mid 68 \, ^{\circ}\text{F}$ Average Power, Ambient Temperature $40 \, ^{\circ}\text{C} \mid 104 \, ^{\circ}\text{F}$

Corrosion Test Method MIL-STD-202, Method 101, Test Condition B

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

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 GR 2846-CORE

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 0.299 kg | 0.66 lb

Regulatory Compliance/Certifications

Agency Classification

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

ROHS Compliant/Exempted



* Footnotes

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

Immersion Depth Immersion at specified depth for 24 hours

COMMSCOPE®