

# APG-BDFDF-090

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Arrestor Plus® Gas Tube Surge Arrestor (90 V), 45–2170 MHz, with interface types DIN Female Bulkhead and DIN Female

## Product Classification

**Product Type** Surge arrester

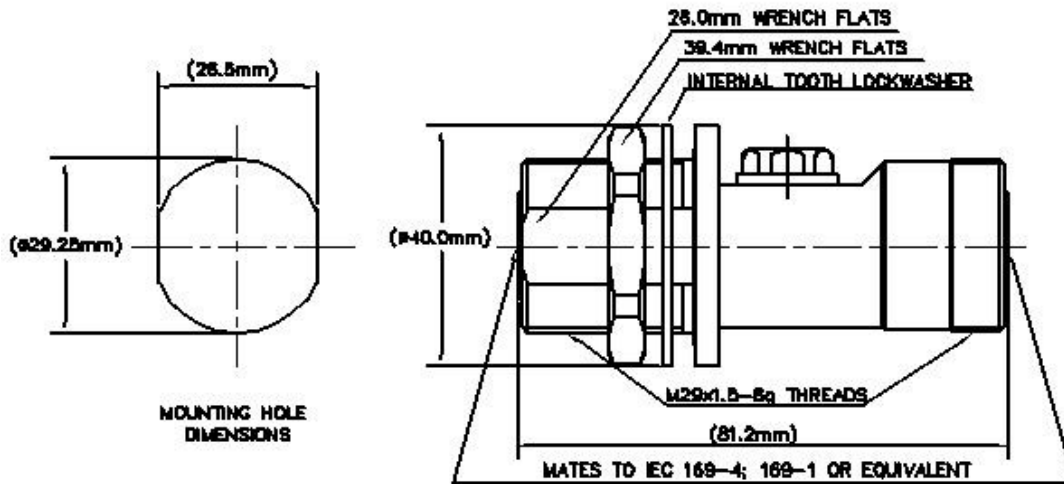
## General Specifications

**Interface** 7-16 DIN Female Bulkhead  
**Interface 2** 7-16 DIN Female  
**Device Type** dc Pass  
**Ordering Note** CommScope® non-standard product  
**Body Style** Bulkhead

## Electrical Specifications

**Operating Frequency Band** 1000 – 2000 MHz | 2000 – 2170 MHz | 45 – 1000 MHz  
**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  
**Insertion Loss, typical** 0.30 dB

## Outline Drawing



## Mechanical Specifications

<b>Attachment Durability</b>	25 cycles
<b>Inner Contact Plating</b>	Silver
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-16:9.5
<b>Outer Contact Plating</b>	Silver
<b>Pressurizable</b>	No

## Dimensions

<b>Height</b>	39.88 mm   1.57 in
<b>Length</b>	81.03 mm   3.19 in
<b>Weight</b>	0.30 kg   0.66 lb
<b>Width</b>	39.88 mm   1.57 in

## Environmental Specifications

<b>Corrosion Test Method</b>	MIL-STD-202, Method 101, Test Condition B
<b>Immersion Depth</b>	1 m
<b>Immersion Test Mating</b>	Mated

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<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Mechanical Shock Test Method</b>	MIL-STD-202F, Method 213B, Test Condition C
<b>Moisture Resistance Test Method</b>	MIL-STD-202, Method 106
<b>Operating Temperature</b>	-40 °C to +100 °C (-40 °F to +212 °F)
<b>Storage Temperature</b>	-40 °C to +100 °C (-40 °F to +212 °F)
<b>Thermal Shock Test Method</b>	MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C
<b>Vibration Test Method</b>	GR 2846-CORE
<b>Water Jetting Test Mating</b>	Mated
<b>Water Jetting Test Method</b>	IEC 60529:2001, IP66

## Standard Conditions

<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F

## Return Loss/VSWR

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
45–1000 MHz	1.17	22.00
1000–2000 MHz	1.22	20.00
2000–2170 MHz	1.25	19.00

## Regulatory Compliance/Certifications

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



## \* Footnotes

<b>Immersion Depth</b>	Immersion at specified depth for 24 hours
<b>Insertion Loss, typical</b>	0.05v/freq (GHz) (not applicable for elliptical waveguide)