APTDC-BDFDM-DBW



Arrestor Plus® Dual Band Quarterwave dc Passing Surge Arrestor (T-shaped) for LTE frequencies, with interface types DIN Female Bulkhead and DIN Male

Product Classification

Product Type Surge arrestor
Product Brand Arrestor Plus®

Ordering Note CommScope® standard product in the United States and Canada

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

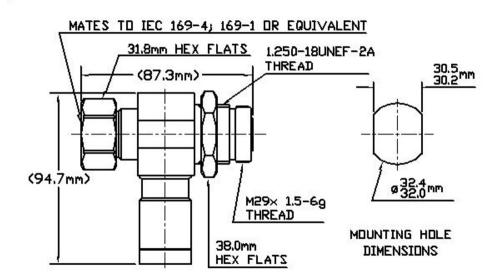
 Height
 88 mm | 3.465 in

 Width
 42 mm | 1.654 in

 Length
 88 mm | 3.465 in

Outline Drawing





Electrical Specifications

3rd Order IMD -117 dBm

3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss, typical 0.07 dB

Average Power 3000 W

Connector Impedance 50 ohm

dc Current, continuous 3 A

Gas Tube Voltage 90 V

Lightning Surge Capability10 times @ 30 kALightning Surge Capability Test MethodIEEE C62.42-1991Lightning Surge Capability Waveform8/20 waveform

Lightning Surge Current 30 kA

Lightning Surge Current Waveform 8/20 waveform

Operating Frequency Band 698 - 2200 MHz

Peak Instantaneous Power (PIP)25 kW RFPeak Power, maximum40 kWThroughput Energy250 μJThroughput Voltage50 V

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VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
1.0−1.5 MHz	1.135	23.98
2.0-2.3 MHz	1.135	23.98
698-806 MHz	1.135	23.98
806-960 MHz	1.106	25.96
1710-2200 MHz	1.106	25.96

Mechanical Specifications

Coupling Nut Proof Torque220 in lb | 24.857 N-mCoupling Nut Retention Force1,000.85 N | 225 lbfCoupling Nut Retention Force MethodMIL-C-39012C-3.25, 4.6.22

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 $-70 \,^{\circ}\text{C}$ to $+150 \,^{\circ}\text{C}$ (-94 $^{\circ}\text{F}$ to $+302 \,^{\circ}\text{F}$)

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

Water Jetting Test Mating Mated

Packaging and Weights

Weight, net 0.599 kg | 1.32 lb

COMMSC PE®

APTDC-BDFDM-DBW

Regulatory Compliance/Certifications

Agency Classification

AISG Compliant

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



* Footnotes

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

Immersion Depth Immersion at specified depth for 24 hours

