APTDC-BDFDM-DB



Arrestor Plus® LTE Band Quarterwave dc Passing Surge Arrestor (T-shaped), 698–2700 MHz, with interface types DIN Female Bulkhead and DIN Male

Product Classification

Product TypeSurge arrestorProduct BrandArrestor Plus®

Ordering Note CommScope® standard product in Asia Pacific

General Specifications

Device Typedc PassBody StyleBulkheadInner Contact PlatingSilver

Interface 7-16 DIN Female Bulkhead

Interface 2 7-16 DIN Male

Outer Contact PlatingTrimetalPressurizableNo

Dimensions

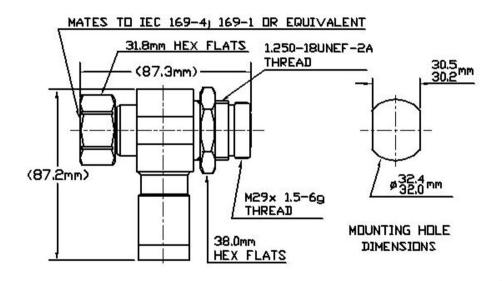
 Height
 87.884 mm | 3.46 in

 Width
 41.91 mm | 1.65 in

 Length
 87.884 mm | 3.46 in

Outline Drawing





Electrical Specifications

Gas Tube Voltage

3rd Order IMD -117 dBm

3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss, typical0.07 dBAverage Power3000 WConnector Impedance50 ohmdc Current, continuous3 A

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

Lightning Surge Current 30 kA

Page 2 of 4



350 V

APTDC-BDFDM-DB

Lightning Surge Current Waveform 8/20 waveform

Operating Frequency Band 698 – 2700 MHz

Peak Power, maximum 40 kW

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
2.0–2.3 MHz	1.14	-24
698-806 MHz	1.21	20.45
806–960 MHz	1.14	-24
1710–2200 MHz	1.14	-24
2200–2700 MHz	1.24	-19.5

Mechanical Specifications

Attachment Durability 25 cycles

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 $+302 \,^{\circ}\text{F}$)

Average Power, Ambient Temperature 40 °C | 104 °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

COMMSCOPE®

APTDC-BDFDM-DB

Weight, net 0.599 kg | 1.32 lb

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Above maximum concentration value

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

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant/Exempted



* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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

