



APTDC-BDFDF-DB

Arrestor Plus® LTE Band Quarterwave dc Passing Surge Arrestor (T-shaped), 698–2170 MHz, with interface types DIN Female Bulkhead and DIN Female

General Specifications

Device Type	dc Pass
Interface	7-16 DIN Female Bulkhead
Interface 2	7-16 DIN Female
Ordering Note	CommScope® standard product in the United States and Canada
Body Style	Bulkhead

Electrical Specifications

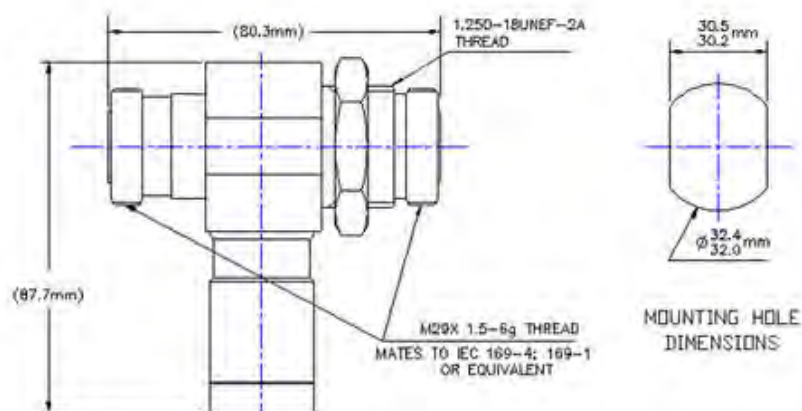
Operating Frequency Band	698 – 2170 MHz
3rd Order IMD	-117.0 dBm -160.0 dBc (relative to carrier)
3rd Order IMD Test Method	Two +43 dBm carriers
Average Power	3000 W
Connector Impedance	50 ohm
Gas Tube Voltage	350 V
Lightning Surge Capability	10 times @ 30 kA
Lightning Surge Capability Test Method	IEEE C62.42-1991
Lightning Surge Capability Waveform	8/20 waveform
Lightning Surge Current	30 kA
Lightning Surge Current Waveform	8/20 waveform
Peak Power, maximum	40.00 kW
Insertion Loss, typical	0.05 dB

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Outline Drawing



Mechanical Specifications

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

Dimensions

Height	81.03 mm	3.19 in
Length	87.88 mm	3.46 in
Weight	0.64 kg	1.41 lb
Width	41.91 mm	1.65 in

Environmental Specifications

Corrosion Test Method	MIL-STD-202, Method 101, Test Condition B
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Mechanical Shock Test Method	MIL-STD-202F, Method 213B, Test Condition C
Moisture Resistance Test Method	MIL-STD-202, Method 106
Operating Temperature	-40 °C to +100 °C (-40 °F to +212 °F)
Storage Temperature	-70 °C to +150 °C (-94 °F to +302 °F)
Thermal Shock Test Method	MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C
Water Jetting Test Mating	Mated

Standard Conditions

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

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
1.0–5.0 MHz	1.17	-22.00
2.0–2.3 MHz	1.12	-25.00
698–806 MHz	1.13	-20.50
806–960 MHz	1.13	-24.00
1710–2000 MHz	1.11	-26.00
2000–2170 MHz	1.11	-26.00

Regulatory Compliance/Certifications

Agency	Classification
AISG	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



* Footnotes

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