



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

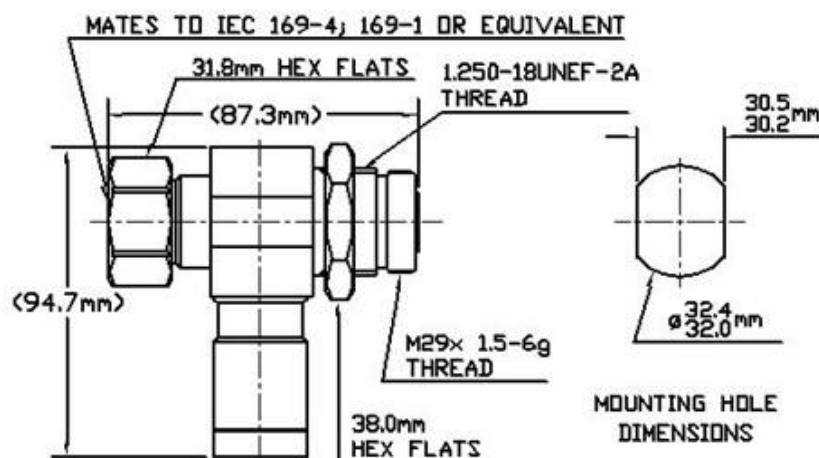
General Specifications

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

Electrical Specifications

| | |
|--|---|
| Operating Frequency Band | 698 – 2200 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 |
| dc Current, continuous | 3 A |
| Gas Tube Voltage | 90 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 Instantaneous Power (PIP) | 25 kW RF |
| Peak Power, maximum | 40.00 kW |
| Throughput Energy | 250.0 µJ |
| Throughput Voltage | 50.0 V |
| Insertion Loss, typical | 0.07 dB |

Outline Drawing



Mechanical Specifications

| | |
|-------------------------------------|---------------------------|
| Coupling Nut Proof Torque | 24.86 N-m 220.00 in lb |
| Coupling Nut Retention Force | 1000.85 N 225.00 lbf |
| Coupling Nut Retention Force Method | MIL-C-39012C-3.25, 4.6.22 |
| Inner Contact Plating | Silver |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-16:9.5 |
| Outer Contact Plating | Trimetal |
| Pressurizable | No |

Dimensions

| | |
|--------|--------------------|
| Height | 87.88 mm 3.46 in |
| Length | 87.88 mm 3.46 in |
| Weight | 0.60 kg 1.32 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) |

APTDC-BDFDM-DBW

POWERED BY



| | |
|---------------------------|---|
| 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

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

Return Loss/VSWR

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 1.0–1.5 MHz | 1.13 | 24.00 |
| 2.0–2.3 MHz | 1.13 | 24.00 |
| 698–806 MHz | 1.13 | 24.00 |
| 806–960 MHz | 1.11 | 26.00 |
| 1710–2200 MHz | 1.11 | 26.00 |

Regulatory Compliance/Certifications

| Agency | Classification |
|----------------------------|--|
| RoHS 2011/65/EU | |
| China RoHS SJ/T 11364-2006 | |
| 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) |