

APT-DFDM-DB



Arrestor Plus® Dual Band Quarterwave Surge Arrestor (T-shaped), 806–960 MHz and 1700–2170 MHz, with interface types DIN Female and DIN Male

Product Classification

| | |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type | Surge arrester |
| Product Brand | Arrestor Plus® |
| Ordering Note | CommScope® standard product in Asia Pacific CommScope® standard product in Europe, the Middle East, and Africa CommScope® standard product in Mexico, Central America, and South America CommScope® standard product in the United States and Canada |

General Specifications

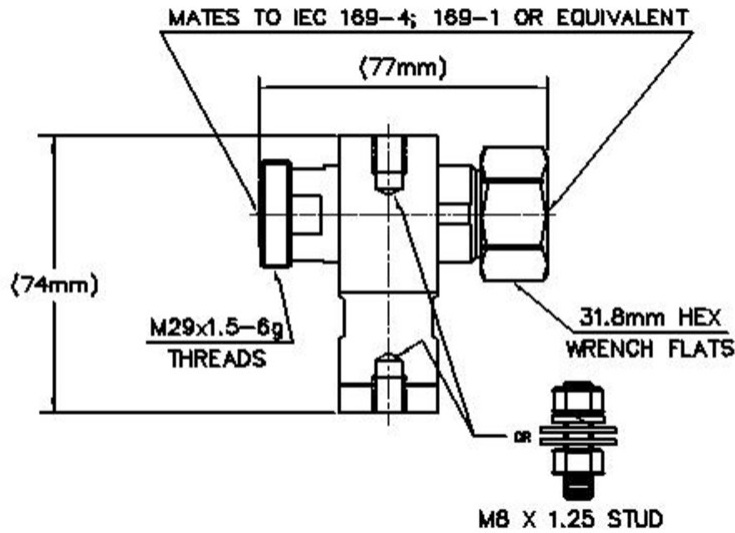
| | |
|------------------------------|-----------------|
| Device Type | dc Block |
| Inner Contact Plating | Silver |
| Interface | 7-16 DIN Female |
| Interface 2 | 7-16 DIN Male |
| Outer Contact Plating | Trimetal |
| Pressurizable | No |

Dimensions

| | |
|---------------|------------------|
| Height | 74 mm 2.913 in |
| Width | 36 mm 1.417 in |
| Length | 77 mm 3.031 in |

Outline Drawing

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Electrical Specifications

| | |
|-----------------------------------------------|--------------------------------------------------------------------|
| 3rd Order IMD | -117 dBm |
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| Insertion Loss, typical | 0.07 dB |
| Average Power at Frequency | 3,000.0 W @ 900 MHz |
| Connector Impedance | 50 ohm |
| Lightning Surge Capability | 100 times @ 20 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 |
| Operating Frequency Band | 1710 – 2000 MHz 2000 – 2170 MHz 806 – 960 MHz 960 – 1710 MHz |
| Peak Power, maximum | 40 kW |
| Throughput Energy at Current | 2.0 mJ @ 30 kA 25.0 μJ @ 2 kA |
| Throughput Energy Waveform | 8/20 waveform |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|------|------------------|
| 806–960 MHz | 1.1 | 26.45 |

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| | | |
|----------------------|-----|-------|
| 960–1710 MHz | 1.2 | 20.83 |
| 1710–2000 MHz | 1.1 | 26.45 |
| 2000–2170 MHz | 1.1 | 26.45 |

Mechanical Specifications

| | |
|--------------------------------------------|---------------------------------------------|
| Attachment Durability | 25 cycles |
| Coupling Nut Proof Torque | 220 in lb 24.857 N-m |
| Coupling Nut Retention Force | 1,000.85 N 225 lbf |
| Coupling Nut Retention Force Method | MIL-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 °C to +150 °C (-40 °F to +302 °F) |
| Storage Temperature | -40 °C to +100 °C (-40 °F to +212 °F) |
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |
| 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 |
| 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 |
| Vibration Test Method | GR 2846-CORE |
| Water Jetting Test Mating | Mated |

Packaging and Weights

| | |
|--------------------|--------------------|
| Weight, net | 0.435 kg 0.96 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 |

APT-DFDM-DB

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|------------|--------------------------------------------------------------------------------------------------------------------------------|
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant/Exempted |
| UK-ROHS | Compliant/Exempted |



* Footnotes

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

Immersion Depth Immersion at specified depth for 24 hours