

# APT-DFDF-DB

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Arrestor Plus® Dual Band Quarterwave Surge Arrestor (T-shaped) with interface types DIN Female and DIN Female

## Product Classification

|                      |                              |
|----------------------|------------------------------|
| <b>Product Type</b>  | Quarter wave shorting stub   |
| <b>Product Brand</b> | Arrestor Plus®               |
| <b>Ordering Note</b> | ANDREW® non-standard product |

## General Specifications

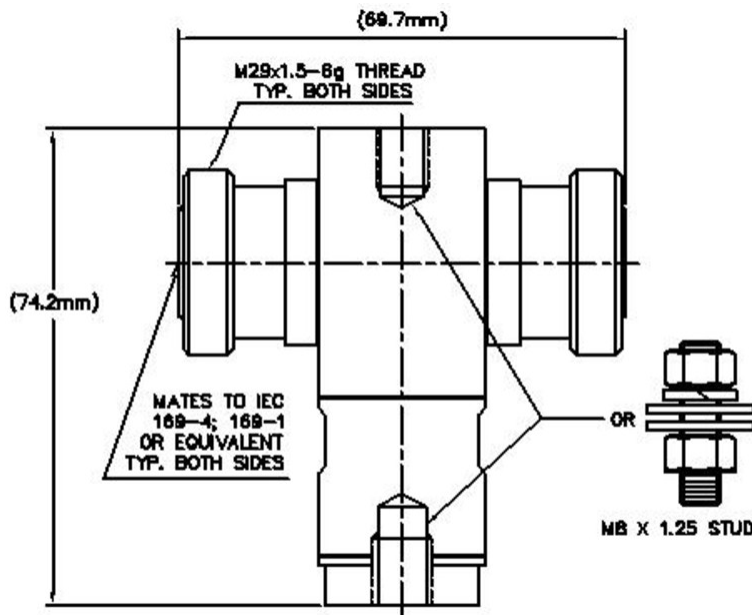
|                              |                 |
|------------------------------|-----------------|
| <b>Device Type</b>           | dc Block        |
| <b>Inner Contact Plating</b> | Silver          |
| <b>Interface</b>             | 7-16 DIN Female |
| <b>Interface 2</b>           | 7-16 DIN Female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

## Dimensions

|               |                    |
|---------------|--------------------|
| <b>Height</b> | 74.2 mm   2.921 in |
| <b>Width</b>  | 30 mm   1.181 in   |
| <b>Length</b> | 69.7 mm   2.744 in |

## Outline Drawing

# APT-DFDF-DB



## Electrical Specifications

|   |   |
|---|---|
| <b>3rd Order IMD</b>                          | -117 dBm  |
| <b>3rd Order IMD Test Method</b>              | Two +43 dBm carriers                              |
| <b>Insertion Loss, typical</b>                | 0.07 dB   |
| <b>Average Power at Frequency</b>             | 3,000.0 W @ 900 MHz                               |
| <b>Connector Impedance</b>                    | 50 ohm  |
| <b>Lightning Surge Capability</b>             | 100 times @ 20 kA                                 |
| <b>Lightning Surge Capability Test Method</b> | IEEE C62.42-1991                                  |
| <b>Lightning Surge Capability Waveform</b>    | 8/20 waveform                                     |
| <b>Lightning Surge Current</b>                | 30 kA   |
| <b>Lightning Surge Current Waveform</b>       | 8/20 waveform                                     |
| <b>Operating Frequency Band</b>               | 1710 – 2000 MHz   2000 – 2170 MHz   824 – 960 MHz |
| <b>Peak Power, maximum</b>                    | 40 kW   |
| <b>Throughput Energy at Current</b>           | 2.0 mJ @ 30 kA   25.0 μJ @ 2 kA                   |
| <b>Throughput Energy Waveform</b>             | 8/20 waveform                                     |

## VSWR/Return Loss

| Frequency Band | VSWR  | Return Loss (dB) |
|----------------|-------|------------------|
| 824–960 MHz    | 1.135 | 23.98            |

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|                      |       |       |
|----------------------|-------|-------|
| <b>1710–2000 MHz</b> | 1.101 | 26.36 |
| <b>2000–2170 MHz</b> | 1.135 | 23.98 |

## Mechanical Specifications

|                                     |   |
|-------------------------------------|---|
| <b>Attachment Durability</b>        | 25 cycles                                   |
| <b>Interface Durability</b>         | 500 cycles                                  |
| <b>Interface Durability Method</b>  | IEC 61169-16:9.5                            |
| <b>Mechanical Shock Test Method</b> | MIL-STD-202F, Method 213B, Test Condition C |

## Environmental Specifications

|   |   |
|---|---|
| <b>Operating Temperature</b>              | -40 °C to +150 °C (-40 °F to +302 °F)                               |
| <b>Storage Temperature</b>                | -40 °C to +100 °C (-40 °F to +212 °F)                               |
| <b>Attenuation, Ambient Temperature</b>   | 20 °C   68 °F   |
| <b>Average Power, Ambient Temperature</b> | 40 °C   104 °F  |
| <b>Corrosion Test Method</b>              | MIL-STD-202, Method 101, Test Condition B                           |
| <b>Immersion Depth</b>                    | 1 m   |
| <b>Immersion Test Mating</b>              | Mated   |
| <b>Immersion Test Method</b>              | IEC 60529:2001, IP68  |
| <b>Moisture Resistance Test Method</b>    | MIL-STD-202, Method 106   |
| <b>Thermal Shock Test Method</b>          | MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C |
| <b>Vibration Test Method</b>              | GR 2846-CORE  |
| <b>Water Jetting Test Mating</b>          | Mated   |

## Packaging and Weights

|                    |                    |
|--------------------|--------------------|
| <b>Weight, net</b> | 0.431 kg   0.95 lb |
|--------------------|--------------------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a> |
| ROHS          | Compliant/Exempted   |
| UK-ROHS       | Compliant/Exempted   |

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