

# APT-DFDF-DB



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

## Product Classification

<b>Brand</b>	Arrestor Plus®
<b>Product Type</b>	Surge arrester

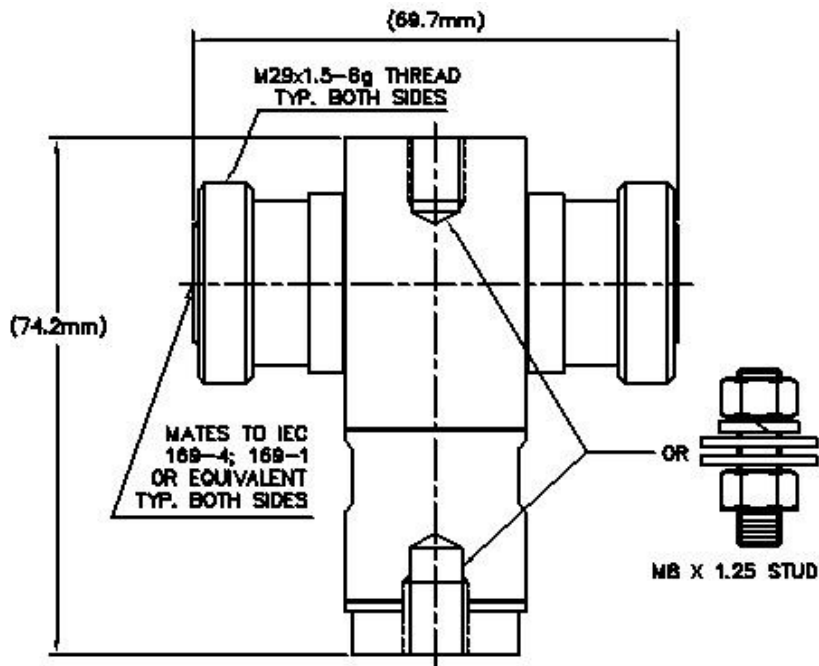
## General Specifications

<b>Interface</b>	7-16 DIN Female
<b>Interface 2</b>	7-16 DIN Female
<b>Device Type</b>	dc Block
<b>Ordering Note</b>	CommScope® non-standard product

## Electrical Specifications

<b>Operating Frequency Band</b>	1710 – 2000 MHz   2000 – 2170 MHz   824 – 960 MHz
<b>3rd Order IMD</b>	-117.0 dBm   -160.0 dBc
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>Average Power</b>	3000.0 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>Peak Power, maximum</b>	40.00 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
<b>Insertion Loss, typical</b>	0.07 dB

## 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	74.23 mm   2.92 in
Length	69.64 mm   2.74 in
Weight	0.43 kg   0.95 lb
Width	29.97 mm   1.18 in

## Environmental Specifications

Corrosion Test Method	MIL-STD-202, Method 101, Test Condition B
Immersion Depth	1 m
Immersion Test Mating	Mated

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<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Mechanical Shock Test Method</b>	MIL-STD-202F, Method 213B, Test Condition C
<b>Moisture Resistance Test Method</b>	MIL-STD-202, Method 106
<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>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

## Standard Conditions

<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F
<b>Average Power, Ambient Temperature</b>	40 °C   104 °F

## Return Loss/VSWR

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
824–960 MHz	1.13	24.00
1710–2000 MHz	1.1	26.40
2000–2170 MHz	1.13	24.00

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)



## \* Footnotes

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