

# APT-BDFDF-DB

---



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

## Product Classification

<b>Product Type</b>	Surge arrester
<b>Product Brand</b>	Arrestor Plus®
<b>Ordering Note</b>	CommScope® non-standard product

## General Specifications

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

## Dimensions

<b>Height</b>	75 mm   2.953 in
<b>Width</b>	42 mm   1.654 in
<b>Length</b>	80 mm   3.15 in

## 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

# APT-BDFDF-DB

---

<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   806 – 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

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
<b>806–960 MHz</b>	1.106	25.96
<b>1710–2000 MHz</b>	1.119	25.01
<b>2000–2170 MHz</b>	1.106	25.96

## 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

# APT-BDFDF-DB

---

## Packaging and Weights

**Weight, net** 0.63 kg | 1.39 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
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
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