

# APT-BDFDM-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 Male

## Product Classification

Product Type	Surge arrestor
Product Brand	Arrestor Plus®
Ordering Note	CommScope® non-standard product

## General Specifications

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

## Dimensions

Height	75 mm   2.953 in
Width	42 mm   1.654 in
Length	87 mm   3.425 in

## 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

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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 – 2170 MHz   806 – 960 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	1.135	23.98
1710–2170 MHz	1.135	23.98

## Mechanical Specifications

Attachment Durability	25 cycles
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

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Water Jetting Test Mating Mated

## Packaging and Weights

Weight, net 0.662 kg | 1.46 lb

## Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



## \* Footnotes

Insertion Loss, typical	0.05√~freq (GHz) (not applicable for elliptical waveguide)
Immersion Depth	Immersion at specified depth for 24 hours