

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

Brand	Arrestor Plus®
Product Type	Surge arrestor

General Specifications

Interface	7-16 DIN Female Bulkhead
Interface 2	7-16 DIN Male
Device Type	dc Block
Ordering Note	CommScope® non-standard product
Body Style	Bulkhead

Electrical Specifications

Operating Frequency Band	1710 – 2170 MHz 806 – 960 MHz
3rd Order IMD	-117.0 dBm -160.0 dBc
3rd Order IMD Test Method	Two +43 dBm carriers
Average Power	3000.0 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
Peak Power, maximum	40.00 kW
Throughput Energy at Current	2.0 mJ @ 30 kA 25.0 µJ @ 2 kA
Throughput Energy Waveform	8/20 waveform
Insertion Loss, typical	0.07 dB

Mechanical Specifications

Attachment Durability	25 cycles
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Inner Contact Plating	Silver
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	74.93 mm 2.95 in
Length	87.12 mm 3.43 in
Weight	0.66 kg 1.46 lb
Width	41.91 mm 1.65 in

Environmental Specifications

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
Mechanical Shock Test Method	MIL-STD-202F, Method 213B, Test Condition C
Moisture Resistance Test Method	MIL-STD-202, Method 106
Operating Temperature	-40 °C to +150 °C (-40 °F to +302 °F)
Storage Temperature	-40 °C to +100 °C (-40 °F to +212 °F)
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

Standard Conditions

Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
806–960 MHz	1.13	24.00
1710–2170 MHz	1.13	24.00

Regulatory Compliance/Certifications

Agency	Classification
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

Immersion Depth	Immersion at specified depth for 24 hours
Insertion Loss, typical	$0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)