APTL5MB-BDF-9

Arrestor Plus® Dual Band Quarterwave Surge Arrestor (T-shaped) for LDF5-50A cable, 1850–1990 MHz, with interface type DIN Female Bulkhead, includes hardware

OBSOLETE

This product was discontinued on: February 16, 2016

Product Classification

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

General Specifications

Body Style	Bulkhead
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	7-16 DIN Female Bulkhead
Outer Contact Attachment Method	Ring-flare
Outer Contact Plating	Silver
Pressurizable	No

Dimensions

Height	69 mm | 2.717 in
Width	53 mm | 2.087 in
Length	94 mm | 3.701 in

Electrical Specifications

3rd Order IMD Gain	-117 dB
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss, typical	0.1 dB
Average Power	3000 W
Cable Impedance	50 ohm
Connector Impedance	50 ohm

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Lightning Surge Capability	100 times @ 30 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	1850 – 1990 MHz
Throughput Energy at Current	1.0 mJ @ 20 kA
Throughput Energy Waveform	8/20 waveform

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
1850–1990 MHz	1.119	25.01

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	2,201.869 N | 495 lbf
Connector Retention Torque	119.49 in lb | 13.501 N-m
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Mechanical Shock Test Method	MIL-STD-202, 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
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60068-2-17
Moisture Resistance Test Method	MIL-STD-202, Method 106
Thermal Shock Test Method	MIL-STD-202, Method 107, Test Condition A-1, -55 °C to +85 °C
Vibration Test Method	MIL-STD-202, Method 204, Test Condition D

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Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66

Packaging and Weights

Weight, net	0.272 kg | 0.6 lb

* Footnotes

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