

APT-DFDM-DB



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

Product Classification

Brand	Arrestor Plus®
Product Type	Surge arrestor

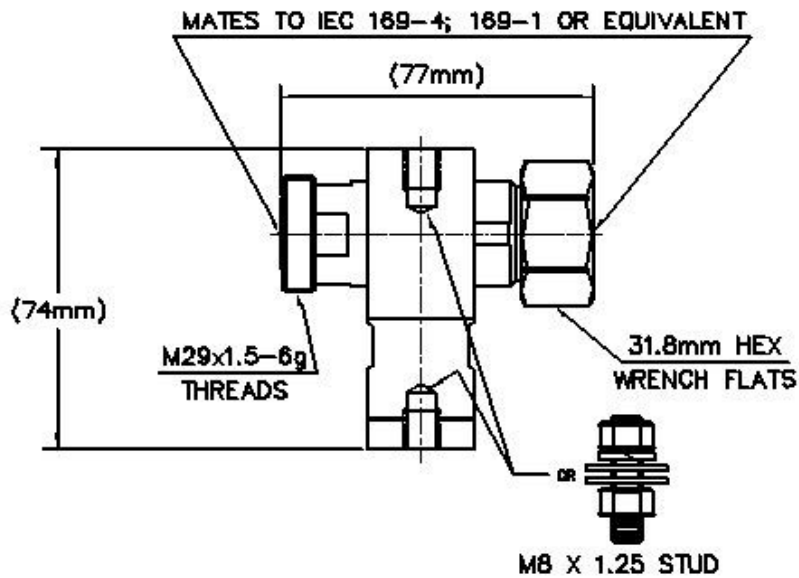
General Specifications

Interface	7-16 DIN Female
Interface 2	7-16 DIN Male
Device Type	dc Block
Harmonized System (HS) Code	854420 (Coaxial cable and other coaxial electric conductors)
Ordering Note	CommScope® standard product in Asia Pacific CommScope® standard product in Europe, the Middle East, and Africa CommScope® standard product in Mexico, Central America, and South America CommScope® standard product in the United States and Canada

Electrical Specifications

Operating Frequency Band	1710 – 2000 MHz 2000 – 2170 MHz 806 – 960 MHz 960 – 1710 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

Outline Drawing



Mechanical Specifications

Attachment Durability	25 cycles
Coupling Nut Proof Torque	24.86 N-m 220.00 in lb
Coupling Nut Retention Force	1000.85 N 225.00 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22
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	76.97 mm 3.03 in
Weight	434.99 g 0.96 lb
Width	36.07 mm 1.42 in

Environmental Specifications

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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	1.10	26.40
960–1710 MHz	1.20	20.50
1710–2000 MHz	1.10	26.40
2000–2170 MHz	1.10	26.40

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√freq (GHz) (not applicable for elliptical waveguide)