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

Product Type	Surge arrestor
Product Brand	Arrestor Plus®
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

General Specifications

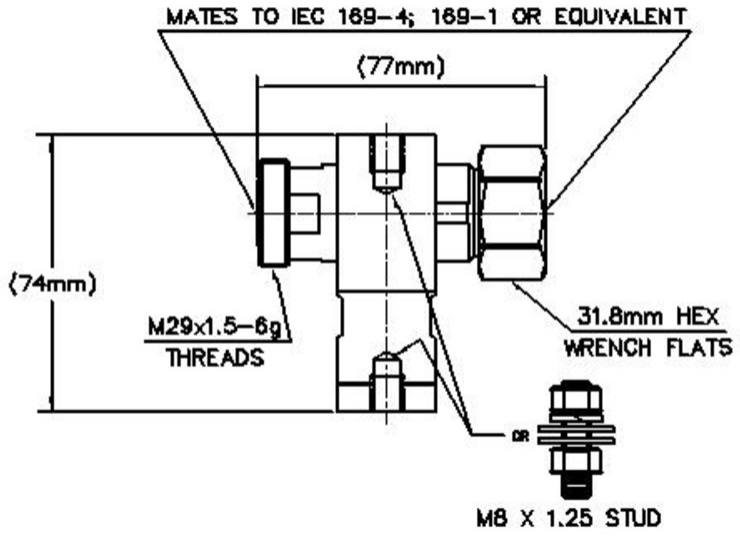
Device Type	dc Block
Inner Contact Plating	Silver
Interface	7-16 DIN Female
Interface 2	7-16 DIN Male
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	74 mm | 2.913 in
Width	36 mm | 1.417 in
Length	77 mm | 3.031 in

Outline Drawing

APT-DFDM-DB



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
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 – 2000 MHz | 2000 – 2170 MHz | 806 – 960 MHz | 960 – 1710 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	1.1	26.45

960–1710 MHz	1.2	20.83
1710–2000 MHz	1.1	26.45
2000–2170 MHz	1.1	26.45

Mechanical Specifications

Attachment Durability	25 cycles
Coupling Nut Proof Torque	220 in lb | 24.857 N-m
Coupling Nut Retention Force	1,000.85 N | 225 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22
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
Water Jetting Test Mating	Mated

Packaging and Weights

Weight, net	0.435 kg | 0.96 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

APT-DFDM-DB

REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted
UK-ROHS	Compliant

* Footnotes

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