

APT-NFNM-DB



Arrestor Plus® Dual Band Quarterwave Surge Arrester (T-shaped, Cylindrical), 806–2170 MHz, with interface types N Female and N Male

Product Classification

Product Type	Surge arrester
Product Brand	Arrestor Plus®
Ordering Note	CommScope® standard product in Asia Pacific

General Specifications

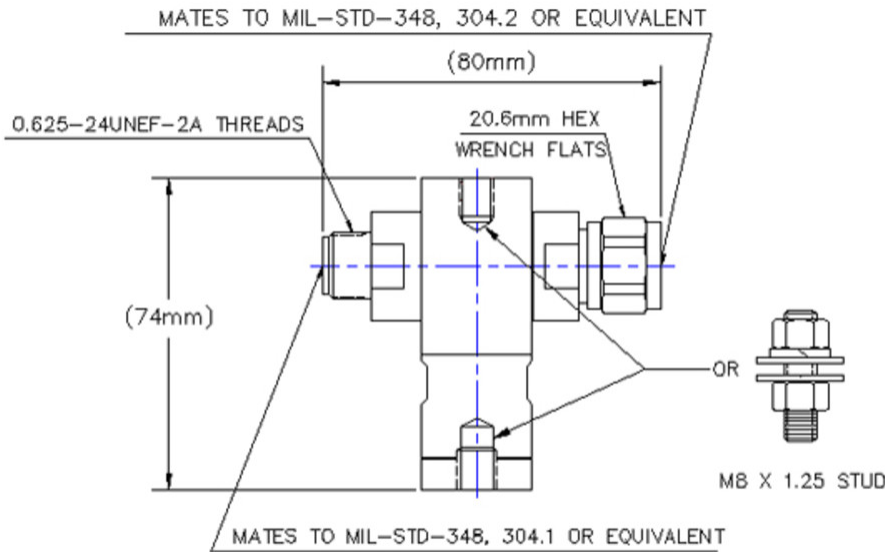
Device Type	dc Block
Inner Contact Plating	Gold
Interface	N Female
Interface 2	N Male
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	74 mm 2.913 in
Width	25 mm 0.984 in
Length	80 mm 3.15 in

Outline Drawing

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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	600.0 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	10 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)
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806–960 MHz	1.101	26.36
960–1710 MHz	1.152	23.02
1710–2000 MHz	1.101	26.36
2000–2170 MHz	1.152	23.02

Mechanical Specifications

Attachment Durability	25 cycles
Coupling Nut Proof Torque	40 in lb 4.519 N-m
Coupling Nut Retention Force	444.822 N 100 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	0.431 kg 0.95 lb
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Regulatory Compliance/Certifications

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

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* Footnotes

Insertion Loss, typical $0.05\sqrt{\text{freq}}$ (GHz) (not applicable for elliptical waveguide)

Immersion Depth Immersion at specified depth for 24 hours