

APT-NFNF-DB



Arrestor Plus® Dual Band Quarterwave Surge Arrestor (T-shaped, Cylindrical), 800–2170 MHz, with interface types N Female and N Female

Product Classification

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

General Specifications

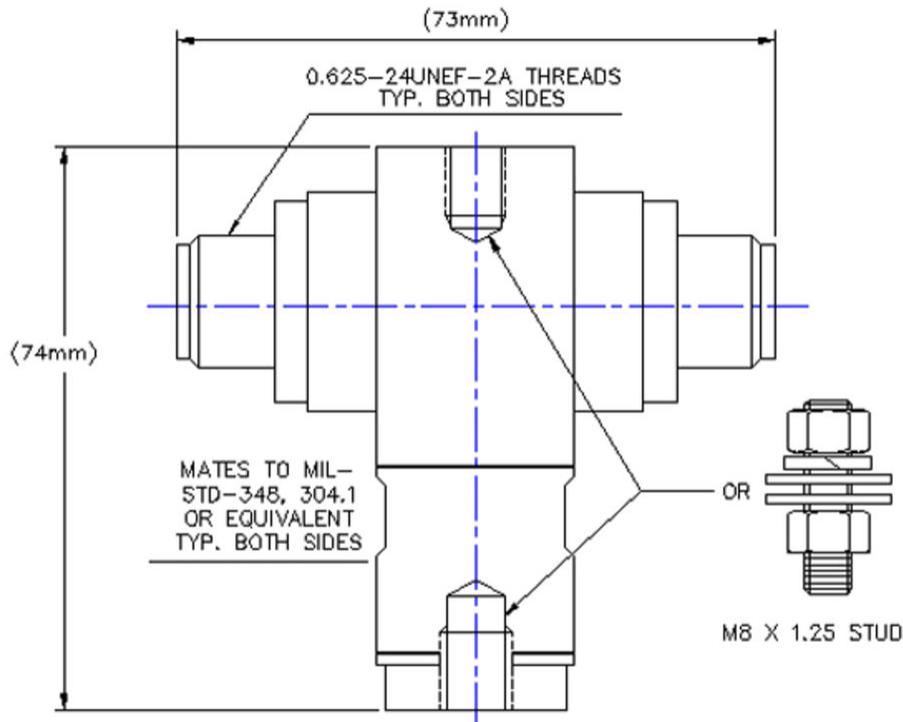
Device Type	dc Block
Inner Contact Plating	Gold
Interface	N Female
Interface 2	N Female
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	74.168 mm 2.92 in
Width	24.892 mm 0.98 in
Length	73.406 mm 2.89 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 – 824 MHz 824 – 960 MHz

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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)
806–824 MHz	1.16	23
824–960 MHz	1.14	24
1710–2000 MHz	1.11	26.4
2000–2170 MHz	1.14	24

Mechanical Specifications

Attachment Durability	25 cycles
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)
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	0.399 kg 0.88 lb
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Regulatory Compliance/Certifications

APT-NFNF-DB

Agency

CHINA-ROHS

ISO 9001:2015

REACH-SVHC

ROHS



Classification

Above maximum concentration value

Designed, manufactured and/or distributed under this quality management system

Compliant as per SVHC revision on www.commscope.com/ProductCompliance

Compliant/Exempted

* Footnotes

Immersion Depth

Immersion at specified depth for 24 hours

Insertion Loss, typical

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