



Dual Band Bias Tee Surge Arrestor (Cylindrical), 698-2700 MHz, with interface types N Female and N Male

Product Classification

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

General Specifications

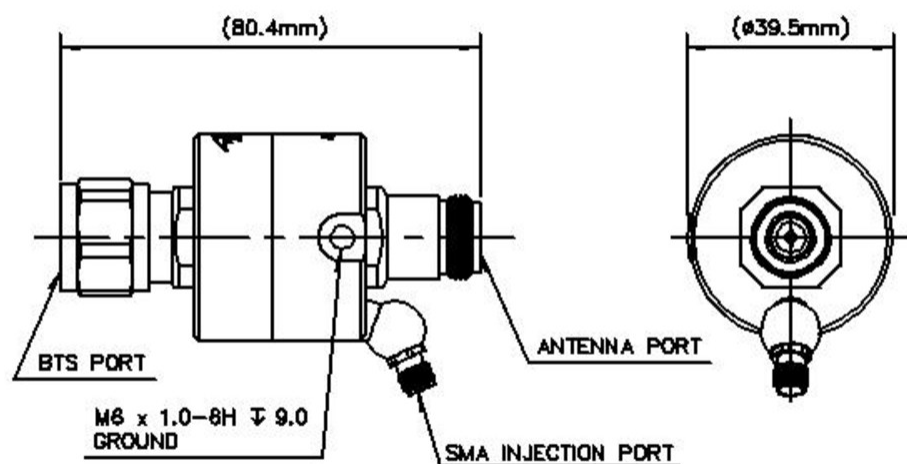
Injector Port Interface	SMA Female
Inner Contact Plating	Silver
Interface	N Female
Interface 2	N Male
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	39.878 mm 1.57 in
Width	39.878 mm 1.57 in
Length	81.026 mm 3.19 in

Outline Drawing

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Electrical Specifications

3rd Order IMD	-116 dBm
3rd Order IMD Test Method	Two +43 dBm carriers
Insertion Loss, typical	0.1 dB
Average Power at Frequency	250.0 W @ 1,910 MHz 500.0 W @ 833 MHz
Connector Impedance	50 ohm
dc Injector Port Inner Contact Plating	Gold
Injector Port to Antenna Isolation, minimum	-70 dB
Lightning Surge Capability	10 times @ 6 kA
Lightning Surge Capability Test Method	IEEE C62.42-1991
Lightning Surge Capability Waveform	8/20 waveform
Lightning Surge Current	6 kA
Lightning Surge Current Waveform	8/20 waveform
Operating Frequency Band	698 – 2700 MHz
Throughput Current, typical	1 A
Voltage Range	-30 V to 30 V

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
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698–806 MHz	1.13	24.29
806–2700 MHz	1.11	26

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 +85 °C (-40 °F to +185 °F)
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °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
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66

Packaging and Weights

Weight, net	0.259 kg 0.57 lb
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Regulatory Compliance/Certifications

Agency	Classification
AISG	Compliant
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

ROHS

Compliant/Exempted



* Footnotes

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