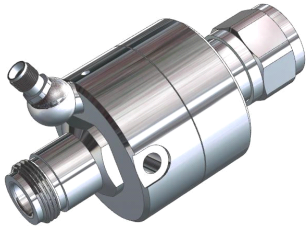


ABT-NFNM-DB



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

Product Classification

Product Type Surge arrester

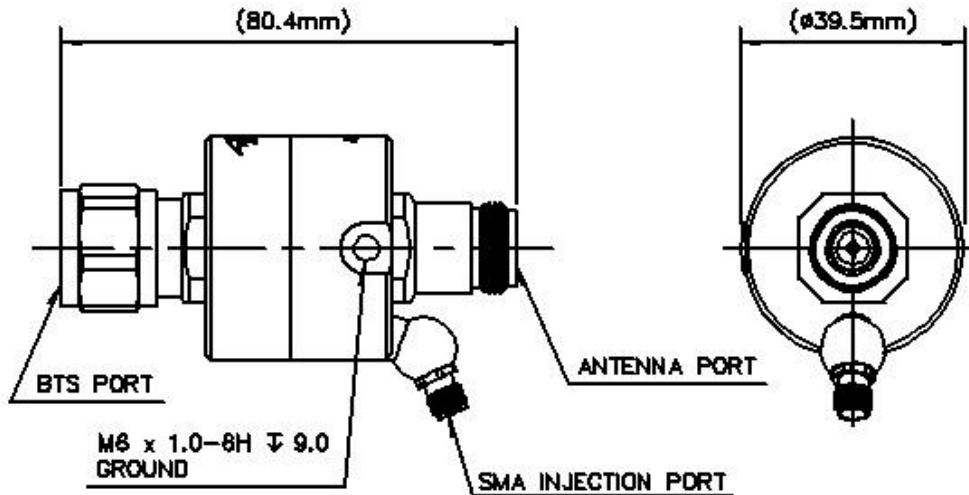
General Specifications

Interface N Female
Interface 2 N Male
Ordering Note CommScope® non-standard product
Injector Port Interface SMA Female

Electrical Specifications

Operating Frequency Band 698 – 2700 MHz
3rd Order IMD -116.0 dBm | -159.0 dBc
3rd Order IMD Test Method Two +43 dBm carriers
Average Power 500 W @ 833 MHz and 250 W @ 1910 MHz (Combined)
Connector Impedance 50 ohm
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
Insertion Loss, typical 0.10 dB

Outline Drawing



Mechanical Specifications

Attachment Durability	25 cycles
Coupling Nut Proof Torque	4.52 N-m 40.00 in lb
Coupling Nut Retention Force	444.82 N 100.00 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22
dc Injector Port Inner Contact Plating	Gold
Inner Contact Plating	Silver
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	39.88 mm 1.57 in
Length	81.03 mm 3.19 in
Weight	0.26 kg 0.57 lb
Width	39.88 mm 1.57 in

Environmental Specifications

ABT-NFNM-DB

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 +85 °C (-40 °F to +185 °F)
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
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

Power Supply

Throughput Current, typical	1 A
Voltage Range	-30 V to 30 V

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)
698–806 MHz	1.13	24.00
806–2700 MHz	1.11	26.00

Regulatory Compliance/Certifications

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



* Footnotes

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