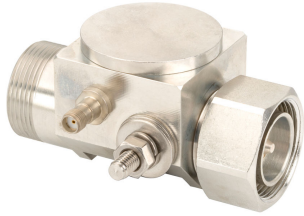


# ABT-DFDM-ADBH



Dual Band Bias Tee Surge Arrestor, 698–960 MHz and 1710–2170 MHz, with interface types DIN Female and DIN Male

**OBSOLETE**

## Product Classification

<b>Product Type</b>	Surge arrestor
<b>Ordering Note</b>	CommScope® standard product in the United States and Canada

## General Specifications

<b>Antenna Interface Signal</b>	RF   dc
<b>BTS Interface Signal</b>	RF   dc Blocked
<b>Injector Port Interface</b>	SMA Female
<b>Injector Port Interface Signal</b>	dc
<b>Inner Contact Plating</b>	Silver
<b>Interface</b>	7-16 DIN Female
<b>Interface 2</b>	7-16 DIN Male
<b>Interface Port</b>	Antenna
<b>Interface 2 Port</b>	BTS
<b>Outer Contact Plating</b>	Trimetal
<b>Pressurizable</b>	No

## Dimensions

<b>Height</b>	42 mm   1.654 in
<b>Width</b>	40 mm   1.575 in
<b>Length</b>	82 mm   3.228 in

## Electrical Specifications

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<b>3rd Order IMD</b>	-116 dBm
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>Insertion Loss, typical</b>	0.1 dB
<b>Average Power at Frequency</b>	350.0 W @ 1,940 MHz   500.0 W @ 883 MHz
<b>Connector Impedance</b>	50 ohm
<b>dc Injector Port Inner Contact Plating</b>	Gold
<b>Injector Port to Antenna Isolation, minimum</b>	-70 dB
<b>Lightning Surge Capability</b>	10 times @ 6 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform
<b>Operating Frequency Band</b>	1710 – 2000 MHz   2000 – 2170 MHz   698 – 960 MHz
<b>Peak Power, maximum</b>	12 kW
<b>Throughput Current, typical</b>	1 A
<b>Voltage Range</b>	-30 V to 30 V

## VSWR/Return Loss

<b>Frequency Band</b>	<b>VSWR</b>	<b>Return Loss (dB)</b>
<b>698–960 MHz</b>	1.13	24.29
<b>1710–2000 MHz</b>	1.135	23.98
<b>2000–2170 MHz</b>	1.135	23.98

## Mechanical Specifications

<b>Attachment Durability</b>	25 cycles
<b>Coupling Nut Proof Torque</b>	220 in lb   24.857 N-m
<b>Coupling Nut Retention Force</b>	1,000.85 N   225 lbf
<b>Coupling Nut Retention Force Method</b>	MIL-C-39012C-3.25, 4.6.22
<b>Interface Durability</b>	500 cycles
<b>Interface Durability Method</b>	IEC 61169-16:9.5
<b>Mechanical Shock Test Method</b>	MIL-STD-202F, Method 213B, Test Condition C

## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Storage Temperature</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Attenuation, Ambient Temperature</b>	20 °C   68 °F

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<b>Average Power, Ambient Temperature</b>	40 °C   104 °F
<b>Corrosion Test Method</b>	MIL-STD-202, Method 101, Test Condition B
<b>Immersion Depth</b>	1 m
<b>Immersion Test Mating</b>	Mated
<b>Immersion Test Method</b>	IEC 60529:2001, IP68
<b>Moisture Resistance Test Method</b>	MIL-STD-202, Method 106
<b>Thermal Shock Test Method</b>	MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C
<b>Water Jetting Test Mating</b>	Mated
<b>Water Jetting Test Method</b>	IEC 60529:2001, IP66

## Packaging and Weights

<b>Weight, net</b>	0.517 kg   1.14 lb
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## Regulatory Compliance/Certifications

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



## \* Footnotes

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