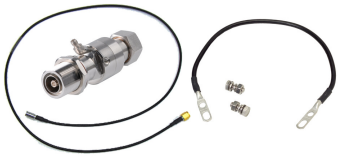
ATBTK-MF-4G



Bias Tee Kit, AISG Compatible 698 - 2700 MHz

OBSOLETE

This product was discontinued on: June 1, 2017

Product Classification

Product Type RET bias tee

General Specifications

Antenna Interface 7-16 DIN Female

BTS Interface 7-16 DIN Male

Dimensions

Height 128 mm | 5.039 in

Width 1,031.2 mm | 40.598 in

Depth 40.6 mm | 1.598 in

Packaging and Weights

Weight, net 0.6 kg | 1.323 lb

Regulatory Compliance/Certifications

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

Included Products

ABT-BDFDM-DBT	–	AISG dc 2.1 Dual Band Bias Tee Surge Arrestor (Cylindrical), 698-2700 MHz, with interface types DIN Female Bulkhead and DIN Male
C100-PSMSB-12M	–	CNT-100 CNT® Jumper with interface types SMA Male and SMB Male, 12 m

ABT-BDFDM-DBT

AISG dc 2.1 Dual Band Bias Tee Surge Arrestor (Cylindrical), 698-2700 MHz, with interface types DIN Female Bulkhead and DIN Male

- AISG dc 2.1 bias tee passes both dc and 2.176 MHz subcarrier

Product Classification

Product Type	Surge arrestor
Ordering Note	ANDREW® non-standard product

General Specifications

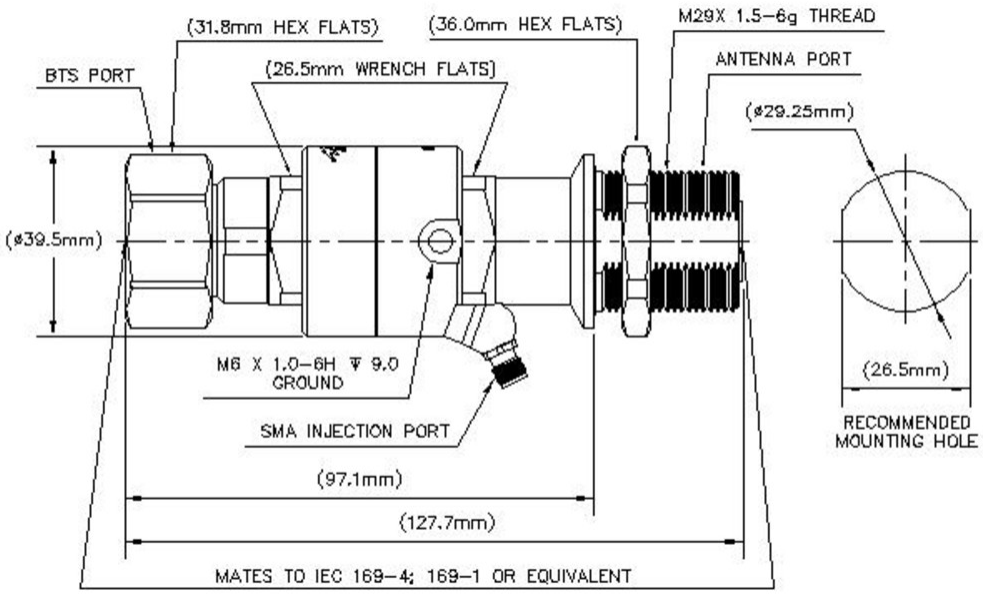
Antenna Interface Signal	AISG | RF | dc
Body Style	Bulkhead
BTS Interface Signal	RF | dc Blocked
Injector Port Interface	SMA Female
Injector Port Interface Signal	AISG | dc
Inner Contact Plating	Silver
Interface	7-16 DIN Female Bulkhead
Interface 2	7-16 DIN Male
Outer Contact Plating	Trimetal
Pressurizable	No

Dimensions

Height	40 mm | 1.575 in
Width	40 mm | 1.575 in
Length	128 mm | 5.039 in

Outline Drawing

ABT-BDFDM-DBT



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 – 806 MHz | 806 – 2700 MHz
Throughput Current, typical	1 A
Throughput Energy at Current	1.0 µJ @ 2 kA
Throughput Energy Waveform	8/20 waveform
Voltage Range	-30 V to 30 V

ABT-BDFDM-DBT

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
698–806 MHz	1.13	24.29
806–2700 MHz	1.106	25.96

Mechanical Specifications

Attachment Durability	25 cycles
Coupling Nut Proof Torque	220 in lb | 24.857 N-m
Coupling Nut Retention Force	1,000.85 N | 225 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	0.599 kg | 1.32 lb

Regulatory Compliance/Certifications

ABT-BDFDM-DBT

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

C100-PSMSB-12M

CNT-100 CNT® Jumper with interface types SMA Male and SMB Male, 12 m

Product Classification

Product Type	Braided cable assembly
Product Brand	CNT®
Product Series	CNT-100

General Specifications

Body Style, Connector A	Straight
Body Style, Connector B	Straight
Cable Family	CNT-100
Interface, Connector A	SMA Male
Interface, Connector B	SMB Male
Specification Sheet Revision Level	A

Dimensions

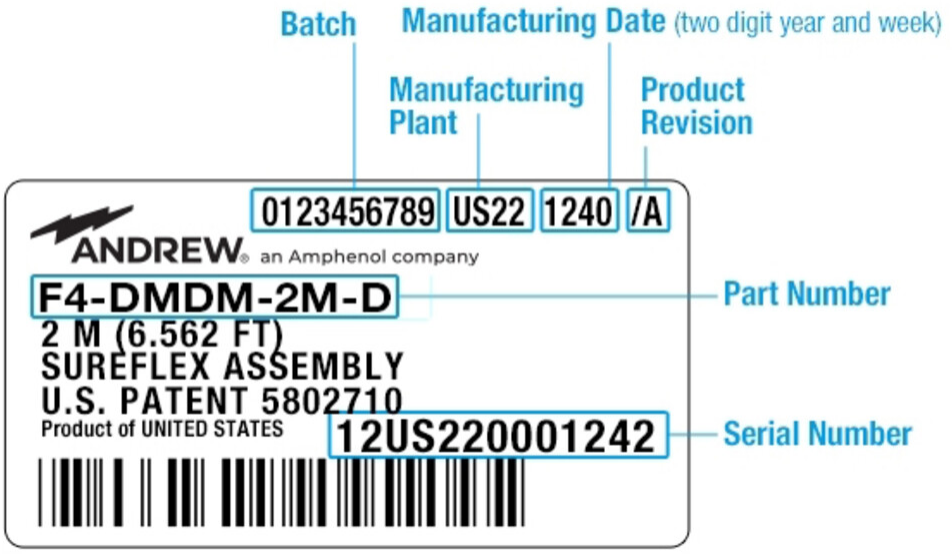
Length	12 m | 39.37 ft
Nominal Size	0.100 in

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
700–3000 MHz	1.433	14.99

Jumper Assembly Sample Label

C100-PSMSB-12M



Regulatory Compliance/Certifications

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