

# ATSBT-TOP-FMC3



## Top Smart Bias Tee

- Reduces cable and site lease costs by eliminating the need for AISG home run cables
- Weatherproof AISG connectors
- Intuitive schematics simplify and ensure proper installation
- Enhanced lightning protection plus grounding stud for additional surge protection
- Operates at 10-30 Vdc
- AISG 1.1 and 2.0 compliant
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

## Product Classification

**Product Type** RET bias tee

## General Specifications

**AISG Input Connector** 8-pin DIN Female

**Antenna Interface** 4.3-10 Male

**Antenna Interface Signal** RF | dc Blocked

**BTS Interface** 4.3-10 Female

**BTS Interface Signal** AISG data | RF | dc

**Color** Silver

**EU Certification** CE

**Grounding Lug Thread Size** M8

**Smart Bias Tee Type** 10–30 V Top

## Dimensions

**Height** 143 mm | 5.63 in

**Width** 94 mm | 3.701 in

**Depth** 50 mm | 1.969 in

## Electrical Specifications

**3rd Order IMD** -158 dBc

**3rd Order IMD Test Method** Two +43 dBm carriers

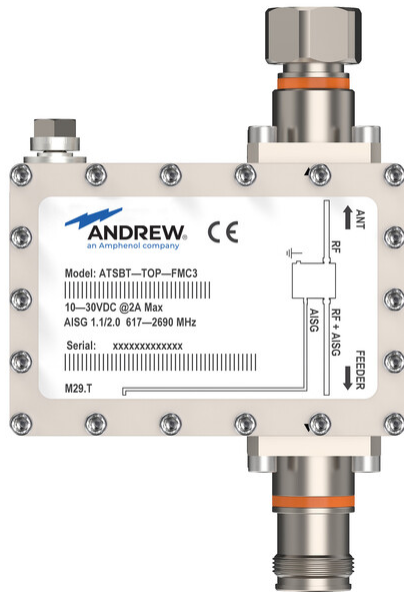
**Insertion Loss, typical** 0.1 dB

**Electromagnetic Compatibility (EMC)** CFR 47 Part 15, Subpart B, Class B | EN 55022, Class B | ICES-003 Issue 4 CAN /CSA-CEI/IEC CISPR 22:02

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<b>Impedance</b>	50 ohm
<b>Interface Protocol Signal</b>	Data   dc
<b>Lightning Surge Capability</b>	5 times @ -3 kA   5 times @ 3 kA
<b>Lightning Surge Capability Test Method</b>	IEC 61000-4-5, Level X
<b>Lightning Surge Capability Waveform</b>	1.2/50 voltage and 8/20 current combination waveform
<b>Operating Frequency Band</b>	617 – 2690 MHz
<b>Power Consumption, maximum</b>	0.6 W
<b>Protocol</b>	AISG 1.1   AISG 2.0
<b>RF Power, maximum</b>	250 W @ 1850 MHz   500 W @ 850 MHz
<b>Voltage Range</b>	10–30 Vdc
<b>VSWR   Return Loss</b>	1.17:1   22 dB, typical

## Interface Port Drawing



## Material Specifications

**Material Type** Aluminum

## Environmental Specifications

**Operating Temperature** -40 °C to +70 °C (-40 °F to +158 °F)

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**Ingress Protection Test Method** IEC 60529:2001, IP66

## Packaging and Weights

**Weight, net** 0.7 kg | 1.543 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted

