

# ATSBT-BOTTOM-FM-4G



## Bottom Smart Bias Tee

- Injects AISG power and control signals onto a coaxial cable line
- Reduces cable and site lease costs by eliminating the need for AISG home run cables
- AISG 1.1 and 2.0 compliant
- Operates at 10-30 Vdc
- Weatherproof AISG connectors
- Intuitive schematics simplify and ensure proper installation
- Enhanced lightning protection plus grounding stud for additional surge protection
- 7-16 DIN male connector (ANT)
- 7-16 DIN female connector (BTS)

## Product Classification

**Product Type** RET bias tee

## General Specifications

<b>AISG Input Connector</b>	8-pin DIN Male
<b>Antenna Interface</b>	7-16 DIN Male
<b>Antenna Interface Signal</b>	AISG data   RF   dc
<b>BTS Interface</b>	7-16 DIN Female
<b>BTS Interface Signal</b>	RF   dc Blocked
<b>Color</b>	Silver
<b>EU Certification</b>	CE
<b>Grounding Lug Thread Size</b>	M8
<b>Smart Bias Tee Type</b>	10–30 V Bottom

## Dimensions

<b>Height</b>	143 mm   5.63 in
<b>Width</b>	94 mm   3.701 in
<b>Depth</b>	50 mm   1.969 in

## Electrical Specifications

<b>3rd Order IMD</b>	-158 dBc
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>Insertion Loss, typical</b>	0.1 dB
<b>Electromagnetic Compatibility (EMC)</b>	CFR 47 Part 15, Subpart B, Class B   EN 55022, Class B   ICES-003 Issue 4 CAN

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/CSA-CEI/IEC CISPR 22:02

<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>	694 – 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

# ATSBT-BOTTOM-FM-4G

Antenna Interface  
(AISG data / dc / RF)

Grounding  
Hardware



Weatherproof  
AISG Input Connector  
(dc / Data)

BTS Interface  
(dc blocked / RF)

## Material Specifications

**Material Type** Aluminum

## Environmental Specifications

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

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

## Packaging and Weights

**Weight, net** 0.8 kg | 1.764 lb

## Regulatory Compliance/Certifications

**Agency** **Classification**

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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

