# ATSBT-BOTTOM-FF-5G



#### Bottom Smart Bias Tee, 600-4200 MHz, 4.3-10

- 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
- 4.3-10 female connector (ANT)
- 4.3-10 female connector (BTS)

#### **Product Classification**

Product Type RET bias tee

### General Specifications

AlSG Input Connector 8-pin DIN Male
Antenna Interface 4.3-10 Female

Antenna Interface Signal AISG data | RF | dc

**BTS Interface** 4.3-10 Female

BTS Interface Signal RF | dc Blocked

ColorSilverEU CertificationCEGrounding Lug Thread SizeM6

Smart Bias Tee Type 10–30 V Bottom

#### Dimensions

 Height
 68 mm | 2.677 in

 Width
 98 mm | 3.858 in

 Depth
 60 mm | 2.362 in

## **Electrical Specifications**

**3rd Order IMD** -161 dBc

**3rd Order IMD Test Method** Two +43 dBm CW Tones

**Insertion Loss, typical** 0.1 dB

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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

**Impedance** 50 ohm

Interface Protocol Signal Data | dc

**Lightning Surge Capability** 5 times @ -3 kA | 5 times @ 3 kA

**Lightning Surge Capability Test Method**IEC 61000-4-5, Level X

**Lightning Surge Capability Waveform** 1.2/50 voltage and 8/20 current combination waveform

**Operating Frequency Band** 600 – 4200 MHz

**Power Consumption, maximum** 0.6 W

Protocol AISG 1.1 | AISG 2.0

**RF Power, maximum** 500 W (CW Tone)

**Voltage Range** 10–30 Vdc

**VSWR | Return Loss** 1.09:1 | 27 dB, typical

### Interface Port Drawing



### Material Specifications

Material Type Aluminum

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### **Environmental Specifications**

**Operating Temperature**  $-40 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to } +158 \,^{\circ}\text{F})$ 

Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

**Weight, net** 0.9 kg | 1.984 lb

### Regulatory Compliance/Certifications

Agency Classification

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

