

# ATSBT-BOTTOM-FF-5G | D85E01P87



## 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

**AISG 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

**Color** Silver

**EU Certification** CE

**Grounding Lug Thread Size** M6

**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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<b>Electromagnetic Compatibility (EMC)</b>	CFR 47 Part 15, Subpart B, Class B   EN 55022, Class B   ICES-003 Issue 4 CAN /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>	600 – 4200 MHz
<b>Power Consumption, maximum</b>	0.6 W
<b>Protocol</b>	AISG 1.1   AISG 2.0
<b>RF Power, maximum</b>	500 W (CW Tone)
<b>Voltage Range</b>	10–30 Vdc
<b>VSWR   Return Loss</b>	1.09:1   27 dB, typical

## Material Specifications

<b>Material Type</b>	Aluminum
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## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Ingress Protection Test Method</b>	IEC 60529:2001, IP67

## Packaging and Weights

<b>Weight, net</b>	0.9 kg   1.984 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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

