

# ATSBT-TOP-FF-4G



## Top Smart Bias Tee

- 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 female 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 Female    |
| <b>Antenna Interface</b>         | 7-16 DIN Female     |
| <b>Antenna Interface Signal</b>  | RF   dc Blocked     |
| <b>BTS Interface</b>             | 7-16 DIN Female     |
| <b>BTS Interface Signal</b>      | AISG data   RF   dc |
| <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 Top         |

## 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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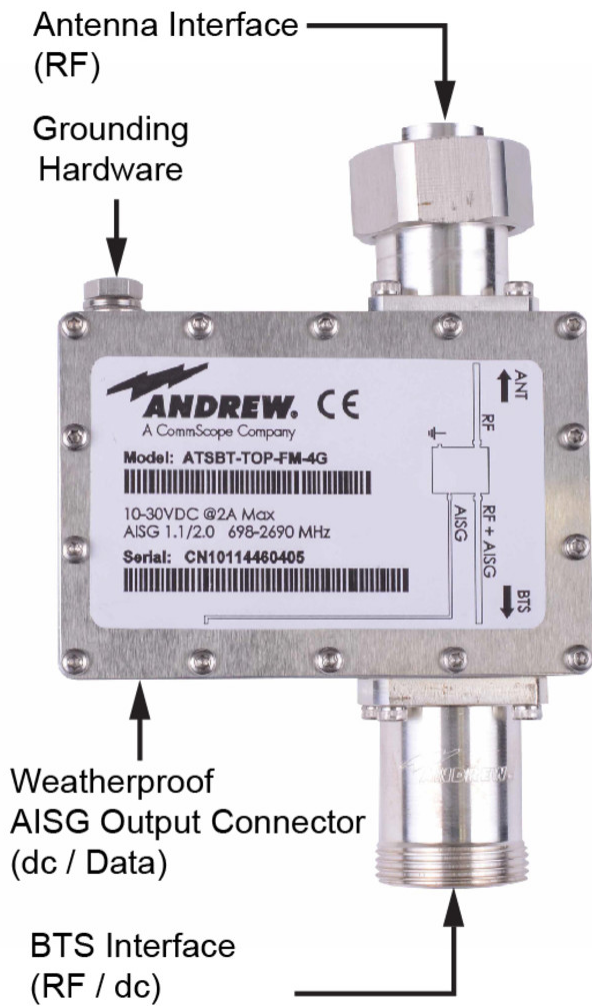
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/CSA-CEI/IEC CISPR 22:02

|   |  |
|---|--|
| <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-TOP-FF-4G



## 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                              |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| ROHS          | Compliant/Exempted   |
| UK-ROHS       | Compliant/Exempted   |

