

ATSBT-BOTTOM-MF-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 female connector (ANT)
- 7-16 DIN male connector (BTS)

Product Classification

Product Type RET bias tee

General Specifications

AISG Input Connector 8-pin DIN Male

Antenna Interface 7-16 DIN Female

Antenna Interface Signal AISG data | RF | dc

BTS Interface 7-16 DIN Male

BTS Interface Signal RF | dc Blocked

Color Silver

EU Certification CE

Grounding Lug Thread Size M8

Smart Bias Tee Type 10–30 V Bottom

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

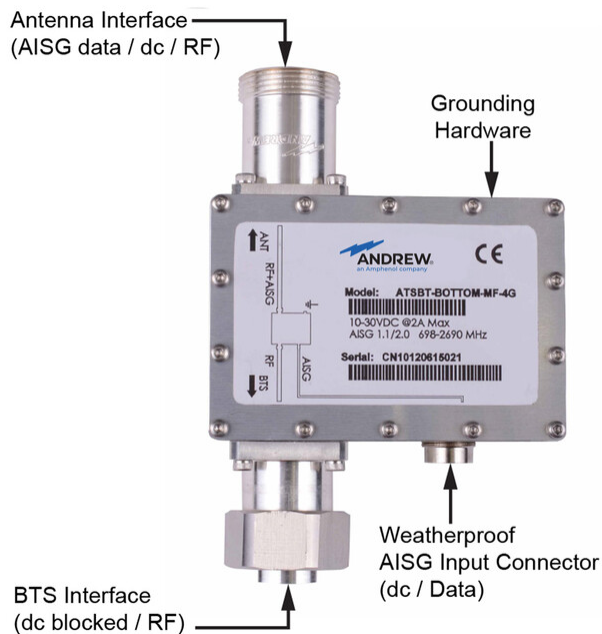
3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss, typical 0.1 dB

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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	617 – 2690 MHz
Power Consumption, maximum	0.6 W
Protocol	AISG 1.1 AISG 2.0
RF Power, maximum	250 W @ 1850 MHz 500 W @ 850 MHz
Voltage Range	10–30 Vdc
VSWR Return Loss	1.17:1 22 dB, typical

Interface Port Drawing



Material Specifications

Material Type	Aluminum
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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
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Regulatory Compliance/Certifications

Agency	Classification
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

