

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
Electromagnetic Compatibility (EMC)	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

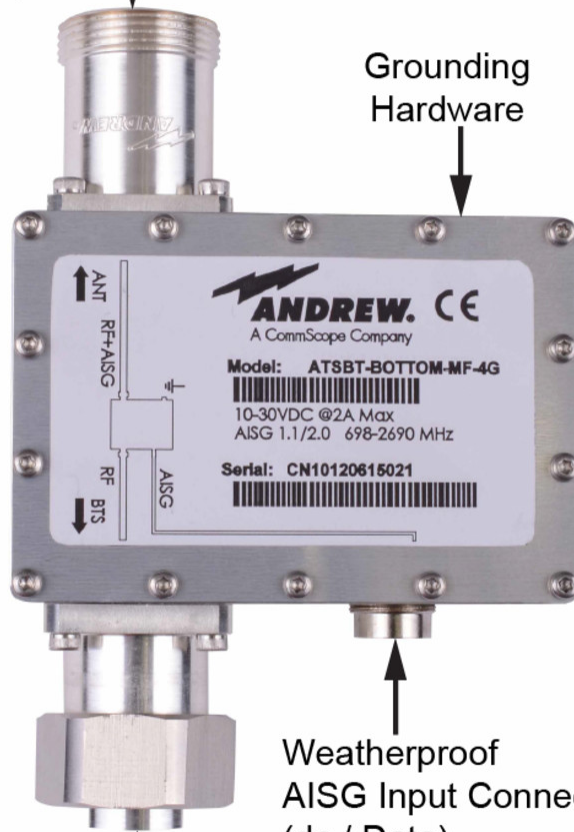
Impedance	50 ohm
Interface Protocol Signal	Data dc
Lightning Surge Capability	5 times @ -3 kA 5 times @ 3 kA
Lightning Surge Capability Test Method	IEC 61000-4-5, Level X
Lightning Surge Capability Waveform	1.2/50 voltage and 8/20 current combination waveform
Operating Frequency Band	698 – 2690 MHz
Power 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

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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**

ATSBT-BOTTOM-MF-4G

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

