

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

Electrical Specifications

EU Certification	CE
Protocol	AISG 1.1 AISG 2.0
Antenna Interface Signal	AISG data dc RF
BTS Interface Signal	dc Blocked RF
Interface Protocol Signal	Data dc
Voltage Range	10–30 Vdc
VSWR Return Loss	1.17:1 22 dB, typical
Power Consumption, maximum	0.6 W
RF Power, maximum	250 W @ 1850 MHz 500 W @ 850 MHz
Impedance	50 ohm
Insertion Loss, typical	0.1 dB
3rd Order IMD	-158.0 dBc
3rd Order IMD Test Method	Two +43 dBm carriers
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

Product Classification

Product Type	RET bias tee
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General Specifications

Smart Bias Tee Type	10–30 V Bottom
Operating Frequency Band	694 – 2690 MHz

Mechanical Specifications

Antenna Interface	7-16 DIN Male
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BTS Interface	7-16 DIN Female
AISG Input Connector	8-pin DIN Male
Color	Silver
Grounding Lug Thread Size	M8
Material Type	Aluminum
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

Environmental Specifications

Ingress Protection Test Method	IEC 60529:2001, IP66
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

Interface Port Drawing

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Antenna Interface
(AISG data / dc / RF)

Grounding
Hardware



BTS Interface
(dc blocked / RF)

Weatherproof
AISG Input Connector
(dc / Data)

Dimensions

Width	94.0 mm 3.7 in
Depth	50.0 mm 2.0 in
Height	143.00 mm 5.63 in
Net Weight	0.8 kg 1.8 lb

Regulatory Compliance/Certifications

Agency
RoHS 2011/65/EU

Classification
Compliant by Exemption

ATSBT-BOTTOM-FM-4G

ISO 9001:2015
China RoHS SJ/T 11364-2014
CE

Designed, manufactured and/or distributed under this quality management system
Above Maximum Concentration Value (MCV)
Compliant with the relevant CE product directives

