

## ATSBT-TOP-MF-4G

### Teletilt® Top 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)

## General Specifications

Smart Bias Tee Type	10–30 V Top
Brand	Teletilt®
Operating Frequency Band	694 – 2690 MHz

## Electrical Specifications

EU Certification	CE
Protocol	AISG 1.1   AISG 2.0
Antenna Interface Signal	dc Blocked   RF
BTS Interface Signal	AISG data   dc   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 (relative to carrier)
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

## Mechanical Specifications

Antenna Interface	7-16 DIN Female
BTS Interface	7-16 DIN Male
AISG Input Connector	8-pin DIN Female
Color	Silver
Grounding Lug Thread Size	M8
Material Type	Aluminum
Lightning Surge Capability	5 times @ -3 kA 5 times @ 3 kA

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Lightning Surge Capability Test Method IEC 61000-4-5, Level X

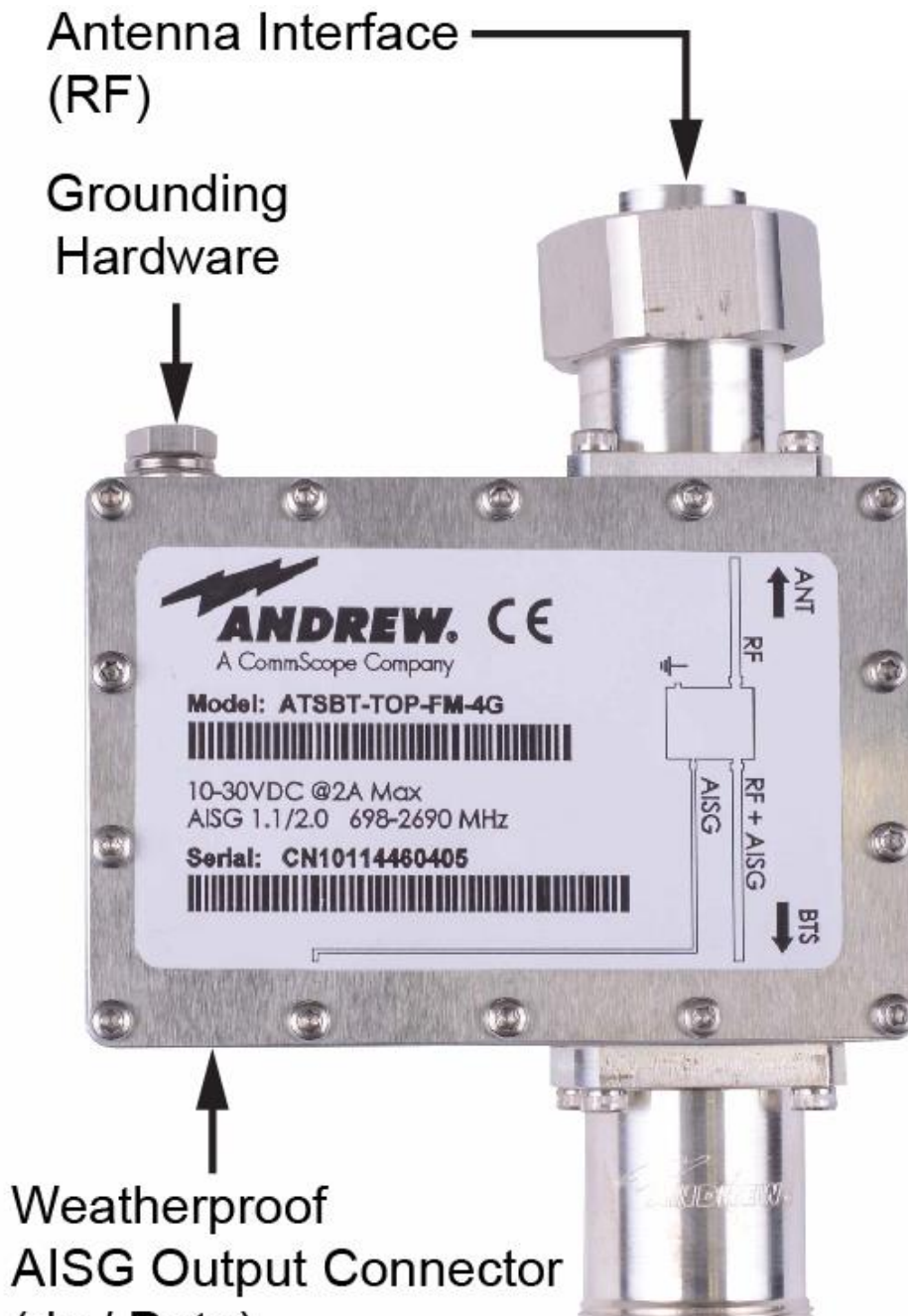
Lightning Surge Capability Waveform 1.2/50 voltage and 8/20 current combination waveform

## 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

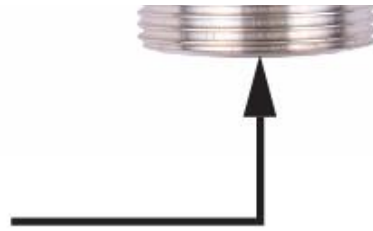


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(dc / Data)

BTS Interface  
(RF / dc)



## 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  
China RoHS SJ/T 11364-2006  
ISO 9001:2008

### Classification

Compliant by Exemption  
Above Maximum Concentration Value (MCV)  
Designed, manufactured and/or distributed under this quality management system

