

ATSBT-TOP-FMC3



Top Smart Bias Tee

- Reduces cable and site lease costs by eliminating the need for AISG home run cables
- Weatherproof AISG connectors
- Intuitive schematics simplify and ensure proper installation
- Enhanced lightning protection plus grounding stud for additional surge protection
- Operates at 10-30 Vdc
- AISG 1.1 and 2.0 compliant
- Uses the 4.3-10 connector which is 40 percent smaller than the 7-16 DIN connector

Product Classification

Product Type RET bias tee

General Specifications

AISG Input Connector 8-pin DIN Female

Antenna Interface 4.3-10 Male

Antenna Interface Signal RF | dc Blocked

BTS Interface 4.3-10 Female

BTS Interface Signal AISG data | RF | dc

Color Silver

EU Certification CE

Grounding Lug Thread Size M8

Smart Bias Tee Type 10–30 V Top

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

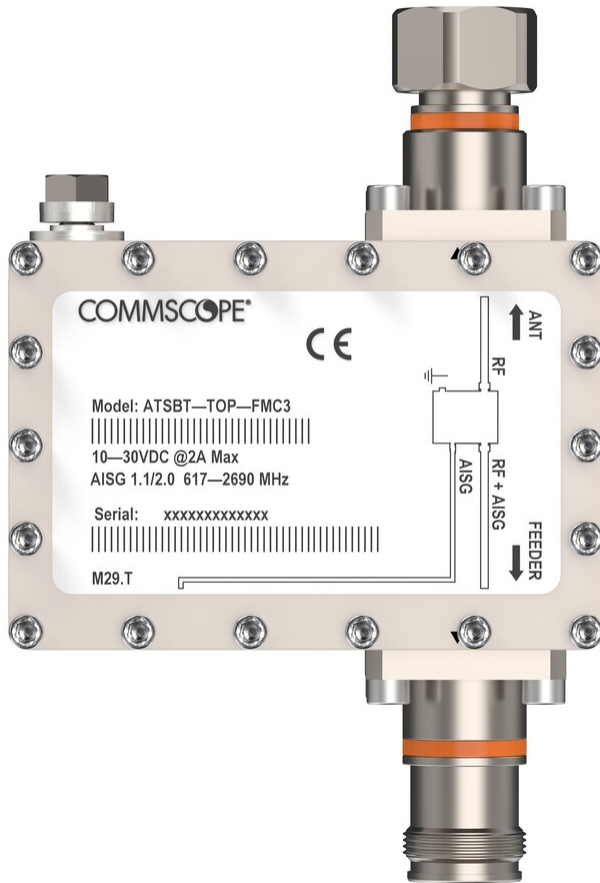
Electromagnetic Compatibility (EMC) CFR 47 Part 15, Subpart B, Class B | EN 55022, Class B | ICES-003 Issue 4 CAN /CSA-CEI/IEC CISPR 22:02

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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

ATSBT-TOP-FMC3



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 0.7 kg | 1.543 lb

Regulatory Compliance/Certifications

Agency **Classification**

ATSBT-TOP-FMC3

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

