

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
- 7-16 DIN female connector (BTS)
- 7-16 DIN male connector (ANT)
- Operates at 10-30 Vdc
- AISG 1.1 and 2.0 compliant

Product Classification

Product Type RET bias tee

General Specifications

AISG Input Connector 8-pin DIN Female

Antenna Interface 7-16 DIN Male

Antenna Interface Signal RF | dc Blocked

BTS Interface 7-16 DIN Female

BTS Interface Signal AISG data | RF | dc

ColorSilverEU CertificationCEGrounding Lug Thread SizeM8

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 MethodTwo +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

Page 1 of 4



/CSA-CEI/IEC CISPR 22:02

Impedance

Interface Protocol Signal

Lightning Surge Capability

Lightning Surge Capability Test Method

Lightning Surge Capability Waveform

Operating Frequency Band

Power Consumption, maximum

Protocol

RF Power, maximum

Voltage Range

VSWR | Return Loss

Interface Port Drawing

50 ohm

Data | dc

5 times @ -3 kA | 5 times @ 3 kA

IEC 61000-4-5, Level X

1.2/50 voltage and 8/20 current combination waveform

694 - 2690 MHz

0.6 W

AISG 1.1 | AISG 2.0

250 W @ 1850 MHz | 500 W @ 850 MHz

10-30 Vdc

1.17:1 | 22 dB, typical





Material Specifications

Material Type Aluminum

Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to} + 158 \,^{\circ}\text{F})$

Ingress Protection Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 0.8 kg | 1.764 lb

Regulatory Compliance/Certifications

Agency Classification

COMMSCSPE®

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



