

### 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 CertificationCE

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

Page 1 of 4

/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** 694 – 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



### 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

**COMMSCOPE®** 

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

