

Tower Mounted Amplifier, Twin AWS 1-4 with AISG

OBSOLETE

This product was discontinued on: June 7, 2019

Replaced By:

TMAT21-11-43 E14R00P14

Tower Mounted Amplifier, Twin AWS 1-4 with AISG, 4.3-10 Connectors

Product Classification

Product Type 1-BTS:1-ANT (Uniplex) | Tower mounted amplifier

General Specifications

Color Gray Modularity 2-Twin

Mounting Pole | Wall **Mounting Pipe Hardware** Band clamps (2) **RF Connector Interface** 7-16 DIN Female

RF Connector Interface Body Style Long neck

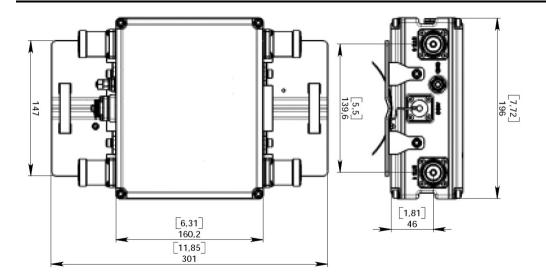
Dimensions

Height 160 mm | 6.299 in Width 196 mm | 7.717 in Depth 78 mm | 3.071 in **Ground Screw Diameter** 6 mm | 0.236 in

Mounting Pipe Diameter Range 40-160 mm

Outline Drawing





Electrical Specifications

License Band, LNA AWS 1700

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy Yes
Lightning Surge Current 20 kA

Lightning Surge Current Waveform 8/20 waveform

Operating Current at Voltage 100 mA @ 12 V

Operating Current Tolerance±20 mAVoltage7-30 VdcVoltage, CWA Mode10-18 Vdc

Alarm Current, CWA Mode 190 mA ±10 mA

Electrical Specifications, AISG

AISG Connector 8-pin DIN Female
AISG Connector Standard IEC 60130-9

Protocol AISG 2.0
Voltage, AISG Mode 10-30 Vdc

Electrical Specifications

 Sub-module
 1 | 2

 Branch
 1



Port Designation ANT

AISG 2.0 Device Subunit E15S07P29 1/2 **License Band** AWS 1700, LNA

Return Loss, typical, dB 20 17 Return Loss - Bypass Mode,

typical, dB

Electrical Specifications Rx (Uplink)

Frequency Range, MHz 1695-1780

Gain, nominal, dB 12 Gain Tolerance, dB ±1 Noise Figure, maximum, dB 1.3 Noise Figure, typical, dB 1.1 Total Group Delay, maximum, 40

Output IP3, minimum, dBm 22 **Insertion Loss - Bypass** 1.7

Mode, typical, dB

Electrical Specifications Tx (Downlink)

2110-2200 Frequency Range, MHz

Insertion Loss, maximum, dB 0.25 Total Group Delay, maximum, 10

20 Return Loss, typical, dB Input Power, RMS, maximum, 200

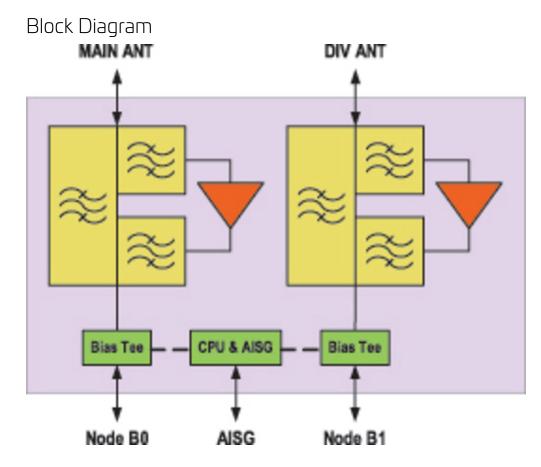
VSWR Alarm Threshold, dB 9.54 **VSWR Alarm Threshold** ±2 Tolerance, dB

Electrical Specifications, Band Pass

Higher Order PIM, typical, dBc -153

Higher Order PIM Test Method 1 x 20 W AWS CW tone 1 x 20 W PCS CW tone





Material Specifications

Finish Painted

Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C} \text{ to } +65 \,^{\circ}\text{C} \left(-40 \,^{\circ}\text{F to } +149 \,^{\circ}\text{F}\right)$

Relative Humidity Up to 100%

Corrosion Test Method IEC 60068-2-11, 30 days
Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

IncludedMounting hardwareWeight, without mounting hardware3.7 kg | 8.157 lb

Regulatory Compliance/Certifications

Agency Classification

COMMSCOPE®

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



* Footnotes

License Band, LNA License Bands that have RxUplink amplification

