

### Quad Tower Mounted Amplifier WCS

#### **OBSOLETE**

This product was discontinued on: March 30, 2024

Replaced By:

TMAQ192123B68-21 E14R00P32

Tower Mounted Amplifier, Quad Diplexed PCS/AWS/WCS, 617-894 MHz bypass 4.3-10

#### **Product Classification**

**Product Type** Tower mounted amplifier

General Specifications

**RF Connector Interface** 7-16 DIN Female

RF Connector Interface Body Style Long neck

Dimensions

 Height
 170 mm | 6.693 in

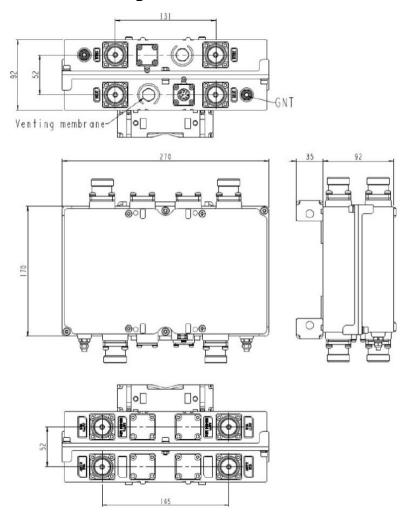
 Width
 270 mm | 10.63 in

 Depth
 90 mm | 3.543 in

 Ground Screw Diameter
 6 mm | 0.236 in



### Outline Drawing



## **Electrical Specifications**

License Band, LNA WCS 2300

## Electrical Specifications, dc Power/Alarm

**Lightning Surge Current** 10 kA

Lightning Surge Current Waveform 8/20 waveform

Operating Current at Voltage 210 mA @ 12 Vdc

**Alarm Current, CWA Mode** 150 mA +/- 10 mA (10-18 VDC)

Electrical Specifications, AISG

**AISG Carrier** 2.176 MHz ± 100 ppm



**AISG Connector** 8-pin DIN Female

AISG Connector Standard IEC 60130-9

Protocol AISG 1.1 | AISG 2.0

**Voltage, AISG Mode** 10–30 Vdc

#### **Electrical Specifications**

Sub-module 1 | 2

Branch 1

Port Designation ANT 0 WCS

**AISG 2.0 Device Subunit** E25A01P03 1/2//3/4

License Band WCS 2300, LNA

#### Electrical Specifications Rx (Uplink)

Frequency Range, MHz 2305-2315

Gain, nominal, dB 13
Gain Tolerance, dB +/-1
Noise Figure, typical, dB 1.7

### Electrical Specifications Tx (Downlink)

Frequency Range, MHz 2350-2360

Insertion Loss, maximum, dB0.6Insertion Loss, typical, dB0.5Total Group Delay, maximum,50

ns

Return Loss, minimum, dB 18
Return Loss, typical, dB 20
Input Power, RMS, maximum, 200

W

Input Power, PEP, maximum, 3000

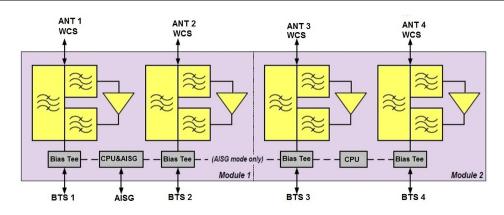
W

3rd Order PIM, typical, dBc -155

**3rd Order PIM Test Method** 2 x 20 W CW tones

### Block Diagram





## **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

**Weight, net** 7.8 kg | 17.196 lb

\* Footnotes

**License Band, LNA**License Bands that have RxUplink amplification

