TMAT23-11A | E15R07P04



Twin Tower Mounted Amplifier WCS

Product Classification

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

General Specifications

Modularity 2-Twin

RF Connector Interface 7-16 DIN Female

RF Connector Interface Body Style Long neck

Dimensions

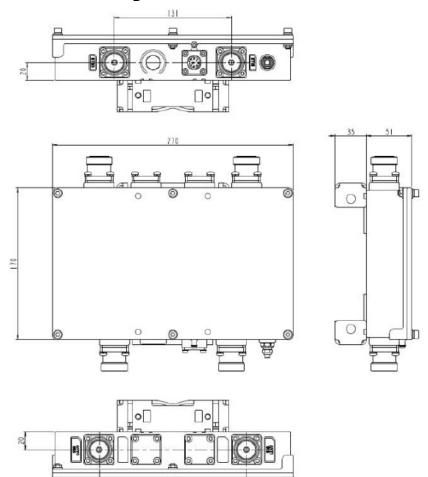
 Height
 170 mm | 6.693 in

 Width
 270 mm | 10.63 in

 Depth
 50 mm | 1.969 in

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Outline Drawing



Electrical Specifications

License Band, LNA WCS 2300

Electrical Specifications, dc Power/Alarm

Lightning Surge Current 10 kA

Lightning Surge Current Waveform8/20 waveformOperating Current at Voltage210 mA @ 12 Vdc

Voltage, CWA Mode 10–18 Vdc

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

Electrical Specifications, AISG

COMMSCOPE®

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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 **Branch** 1

Port Designation ANT 0 WCS **AISG 2.0 Device Subunit** E25A01P03 1/2

License Band WCS 2300, LNA

Electrical Specifications Rx (Uplink)

2305-2315 Frequency Range, MHz

13 Gain, nominal, dB Gain Tolerance, dB 1 1.7 Noise Figure, typical, dB

Electrical Specifications Tx (Downlink)

200

3000

2350-2360 Frequency Range, MHz

Insertion Loss, maximum, dB 0.6 Insertion Loss, typical, dB 0.5 Total Group Delay, maximum, 50

Return Loss, minimum, dB

18 20 Return Loss, typical, dB

Input Power, RMS, maximum,

Input Power, PEP, maximum,

3rd Order PIM, typical, dBc

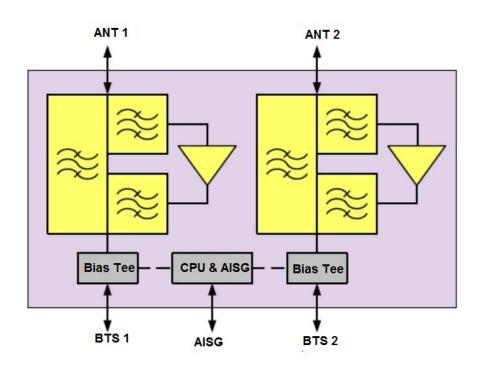
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3rd Order PIM Test Method Two +43 dBm carriers

Block Diagram



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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 4.2 kg | 9.259 lb

* Footnotes

License Band, LNALicense Bands that have RxUplink amplification