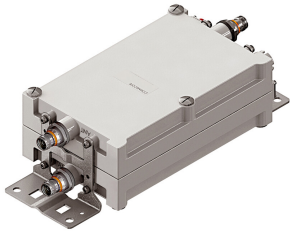


E14R00P35



Dual Band Tower Mounted Amplifier, 1800/2100 MHz with 1400 MHz bypass, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (1 devices with 2 sub-units each), with 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- Designed for network modernization application, introduction of LTE1400 on existing site
- TMA with 1452-1492 MHz bypass
- 2 input ports and 2 output ports
- Automatic LNA by-pass function
- Built in lightning protection
- Connectors “in line”
- Single AISG with 1 RET connector
- 1 device with 2 sub-units

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 4.3-10 Female

Dimensions

Height 280 mm | 11.024 in

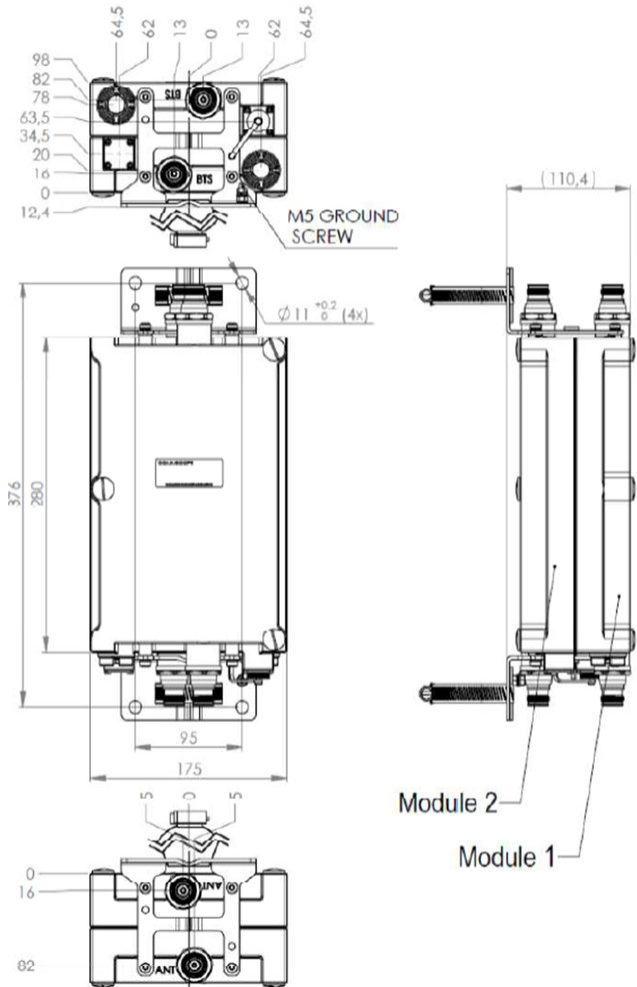
Width 175 mm | 6.89 in

Depth 98 mm | 3.858 in

Mounting Pipe Diameter Range 50–120 mm

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Outline Drawing



Electrical Specifications

| | |
|--------------------------------|--------------------------------|
| License Band, Band Pass | SDL 1400 |
| License Band, LNA | DCS 1800 IMT 2100 IMT 2600 |

Electrical Specifications, dc Power/Alarm

| | |
|---|--------------------|
| dc Switching/Redundancy | Yes |
| Lightning Surge Current | 10 kA |
| Lightning Surge Current Waveform | 8/20 waveform |
| Voltage | 7–30 Vdc |
| Alarm Current, CWA Mode | 190 mA \pm 15 mA |

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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 | 1 2 | 1 2 |
| Branch | 1 | 1 | 1 |
| Port Designation | ANT | ANT | ANT |
| License Band | SDL 1400, Band Pass | DCS 1800, LNA | IMT 2100, LNA |
| Return Loss - Bypass Mode, typical, dB | | 16 | 16 |

Electrical Specifications Rx (Uplink)

| | | |
|--|------------------|------------------|
| Frequency Range, MHz | 1710–1785 | 1920–1980 |
| Bandwidth, MHz | 75 | 60 |
| Gain, nominal, dB | 12 | 12 |
| Noise Figure, typical, dB | 1.7 | 1.6 |
| Output IP3, minimum, dBm | 12 | 12 |
| Return Loss, minimum, dB | 18 | 18 |
| Insertion Loss - Bypass Mode, typical, dB | 2.5 | 2.3 |

Electrical Specifications Tx (Downlink)

| | | |
|-------------------------------------|----------------------|----------------------|
| Frequency Range, MHz | 1805–1880 | 2110–2170 |
| Bandwidth, MHz | 60 | 60 |
| Insertion Loss, typical, dB | 0.3 | 0.3 |
| Return Loss, minimum, dB | 18 | 18 |
| Input Power, RMS, maximum, W | 200 | 200 |
| Input Power, PEP, maximum, W | 1000 | 1000 |
| 3rd Order PIM, typical, dBc | -162 | -162 |
| 3rd Order PIM Test Method | Two +43 dBm carriers | Two +43 dBm carriers |

Electrical Specifications, Band Pass

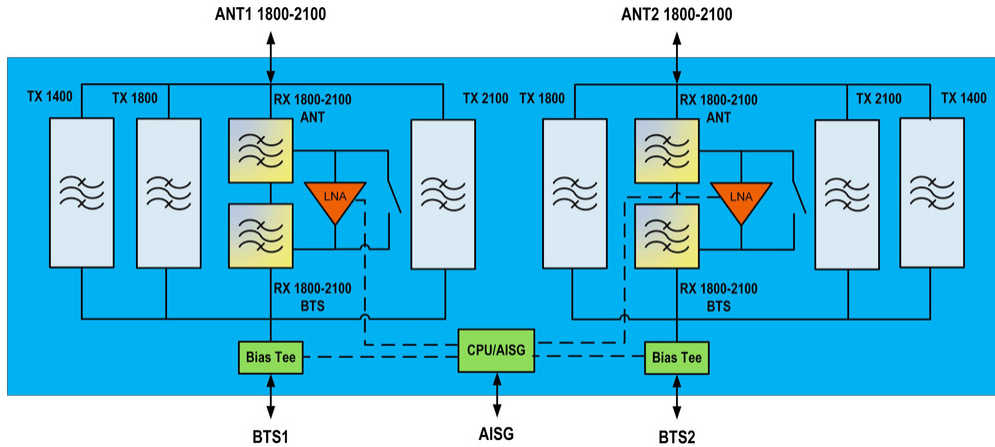
| | |
|------------------------------------|------------------|
| Frequency Range, MHz | 1452–1492 |
| Insertion Loss, typical, dB | 0.35 |

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| | |
|-------------------------------------|----------------------|
| Return Loss, minimum, dB | 18 |
| Input Power, RMS, maximum, W | 200 |
| Input Power, PEP, maximum, W | 100 |
| 3rd Order PIM, typical, dBc | -162 |
| 3rd Order PIM Test Method | Two +43 dBm carriers |

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Block Diagram



Mechanical Specifications

Wind Speed, maximum 200 km/h (124 mph)

Environmental Specifications

Operating Temperature -40 °C to +65 °C (-40 °F to +149 °F)

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

Included Mounting hardware

Volume 4.8 L

Weight, net 8 kg | 17.637 lb

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

* Footnotes

License Band, Band Pass License Bands that are to be passed through with no amplification

License Band, LNA License Bands that have RxUplink amplification