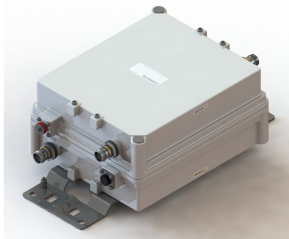


E14R00P73



Tri Band Tower Mounted Amplifier, 700//800//900 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (3 device with 2 sub-units each)

- TMA is operating in AISG & CWA mode, Alarm Current consumption CWA mode 190 mA
- 2 input ports and 2 output ports
- Designed to boost UP-Link Coverage and KPIs
- 3 devices with 2 sub-units
- Automatic LNA by-pass function
- Connectors "in line"
- Single AISG with 1 RET connector
- Built in lightning protection

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 234 mm | 9.213 in

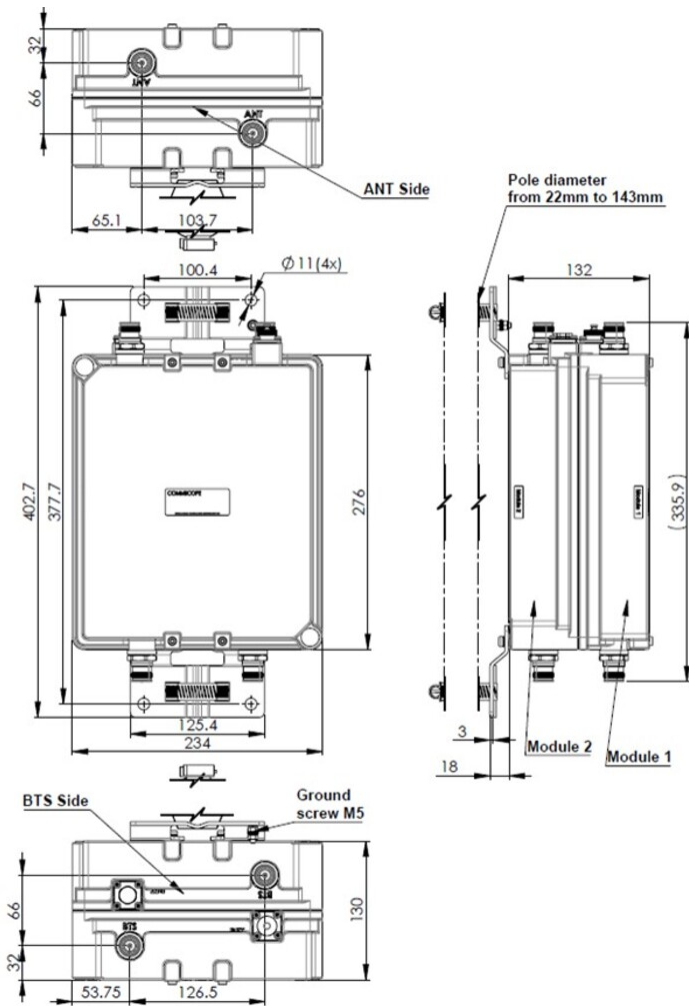
Width 130 mm | 5.118 in

Depth 276 mm | 10.866 in

Mounting Pipe Diameter Range 43–122 mm

Outline Drawing

E14R00P73



Electrical Specifications

License Band, LNA APT 700 | CEL 900 | EDD 800

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy Yes

Lightning Surge Current 10 kA

Lightning Surge Current Waveform 8/20 waveform

Alarm Current, CWA Mode 190 mA \pm 10 mA

Electrical Specifications, AISG

AISG Connector 8-pin DIN Female

AISG Connector Standard IEC 60130-9

E14R00P73

| | |
|---------------------------|----------|
| Protocol | AISG 2.0 |
| Voltage, AISG Mode | 7–30 Vdc |

Electrical Specifications

| | | | |
|---|--------------|--------------|--------------|
| Sub-module | 1 2 | 1 2 | 1 2 |
| Branch | 1 | 2 | 3 |
| Port Designation | ANT | ANT | ANT |
| License Band | APT 700, LNA | EDD 800, LNA | CEL 900, LNA |
| Return Loss, typical, dB | 20 | 20 | 20 |
| Return Loss - Bypass Mode, typical, dB | 16 | 16 | 16 |

Electrical Specifications Rx (Uplink)

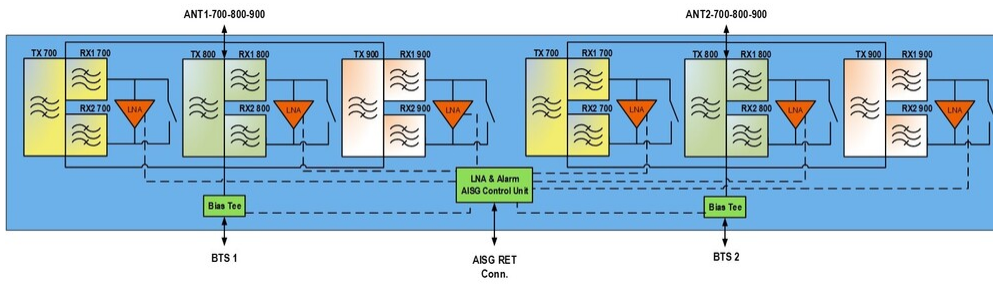
| | | | |
|--|----------------|----------------|----------------|
| Frequency Range, MHz | 723–733 | 852–862 | 890–905 |
| Bandwidth, MHz | 10 | 10 | 15 |
| Gain, nominal, dB | 12 | 12 | 12 |
| Noise Figure, typical, dB | 1.3 | 1.3 | 1.6 |
| Total Group Delay, typical, ns | 110 | 90 | 140 |
| Insertion Loss - Bypass Mode, typical, dB | 2.3 | 2.2 | 2.6 |

Electrical Specifications Tx (Downlink)

| | | | |
|---------------------------------------|----------------------|----------------------|----------------------|
| Frequency Range, MHz | 778–788 | 811–821 | 935–950 |
| Bandwidth, MHz | 10 | 10 | 15 |
| Insertion Loss, typical, dB | 0.3 | 0.3 | 0.3 |
| Total Group Delay, typical, ns | 30 | 40 | 30 |
| Return Loss, typical, dB | 20 | 20 | 20 |
| Input Power, RMS, maximum, W | 200 | 200 | 200 |
| Input Power, PEP, maximum, W | 1000 | 1000 | 1000 |
| 3rd Order PIM, typical, dBc | -146 | -146 | -146 |
| 3rd Order PIM Test Method | Two +43 dBm carriers | Two +43 dBm carriers | Two +43 dBm carriers |

Block Diagram

E14R00P73



Environmental Specifications

| | |
|---------------------------------------|--------------------------------------|
| Operating Temperature | -40 °C to +65 °C (-40 °F to +149 °F) |
| Corrosion Test Method | IEC 60068-2-11, 30 days |
| Environmental Test Method | ETSI EN 300 019-1-4 |
| Ingress Protection Test Method | IEC 60529:2001, IP67 |

Packaging and Weights

| | |
|--|--------------------|
| Included | Mounting hardware |
| Volume | 8.4 L |
| Weight, net | 9.5 kg 20.944 lb |
| Weight, without mounting hardware | 9.1 kg 20.062 lb |

Regulatory Compliance/Certifications

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

* Footnotes

| | |
|--------------------------|--|
| License Band, LNA | License Bands that have RxUplink amplification |
|--------------------------|--|