

E15R02P30



Dual Band Tower Mounted Amplifier, 850//900 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (2 device with 2 sub-units)

- 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
- Automatic LNA by-pass function
- Connectors "in line"
- Single AISG with 1 RET connector
- 2 devices with 2 sub-units
- Built in lightning protection

OBSOLETE

This product was discontinued on: June 30, 2022

Product Classification

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

General Specifications

Color Gray

Modularity 2-Twin

Mounting Pipe Hardware Band clamps (2)

RF Connector Interface 7-16 DIN Female

Dimensions

Height 152 mm | 5.984 in

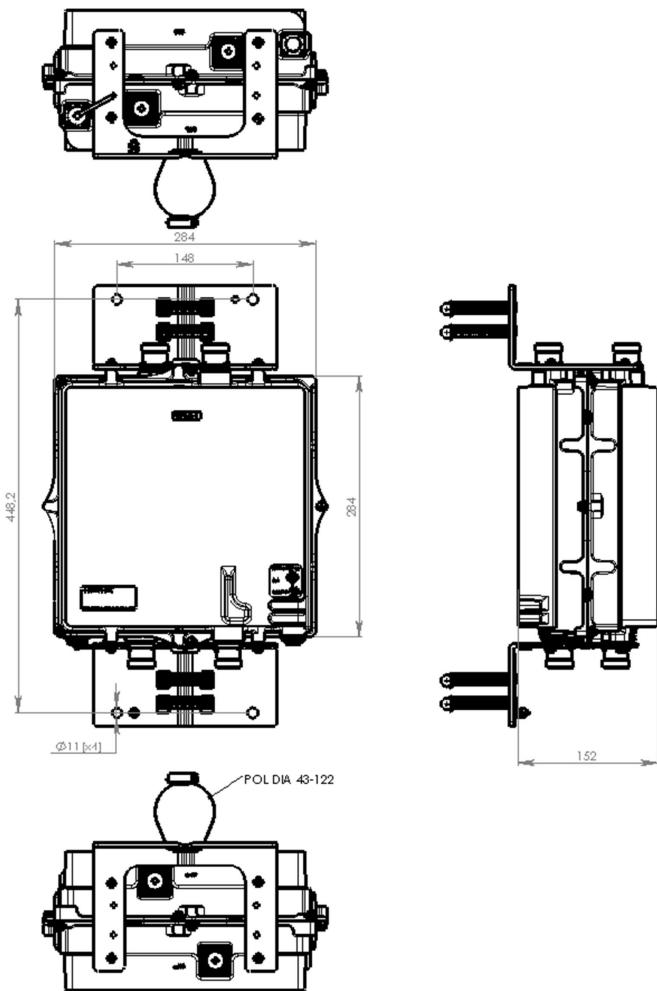
Width 284 mm | 11.181 in

Depth 284 mm | 11.181 in

Mounting Pipe Diameter Range 42.6–122 mm

Outline Drawing

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Electrical Specifications

License Band, LNA CEL 850 | 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

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Protocol	AISG 2.0
Voltage, AISG Mode	10–30 Vdc

Electrical Specifications

Sub-module	1 2	1 2
Branch	1	2
Port Designation	ANT	ANT
License Band	CEL 850, LNA	CEL 900, LNA
Return Loss, typical, dB	20	20
Return Loss - Bypass Mode, typical, dB	18	18

Electrical Specifications Rx (Uplink)

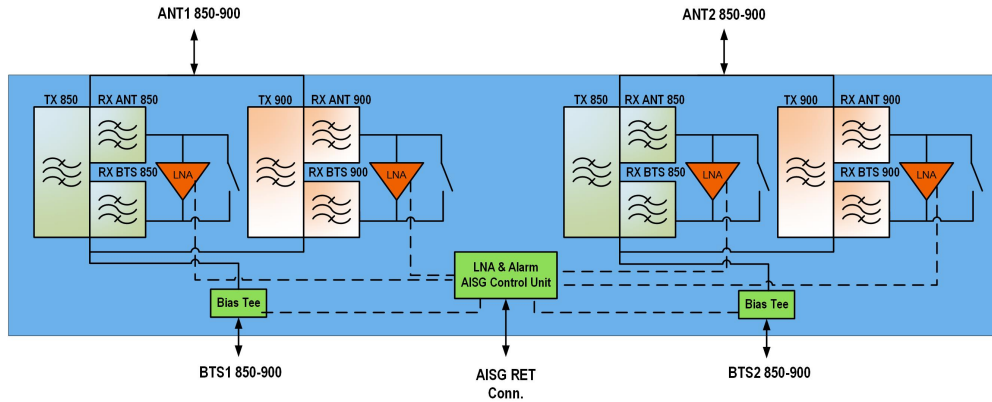
Frequency Range, MHz	825–835	898–915
Bandwidth, MHz	10	16.6
Gain, nominal, dB	13	13
Noise Figure, maximum, dB	2	2
Noise Figure, typical, dB	1.5	1.5
Group Delay Variation, maximum, ns	190	60
Group Delay Variation Bandwidth, MHz	5	5
Return Loss, minimum, dB	16	16
Insertion Loss - Bypass Mode, typical, dB	2.1	1.8

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	870–880	943–960
Bandwidth, MHz	10	16.6
Insertion Loss, maximum, dB	0.6	0.6
Insertion Loss, typical, dB	0.5	0.5
Group Delay Variation, maximum, ns	35	35
Group Delay Variation Bandwidth, MHz	5	5
Return Loss, minimum, dB	16	16
Return Loss, typical, dB	20	20
Input Power, RMS, maximum, W	200	200
Input Power, PEP, maximum, W	2500	2500
3rd Order PIM, typical, dBc	-153	-153
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers

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Block Diagram



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	12 L
Weight, net	15 kg 33.069 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
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