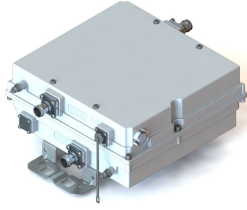


E14R00P43



Dual Band Tower Mounted Amplifier, 700//800 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 2 RET connectors (1 device with 2 sub-units), with 4.3-10 connectors

- Industry leading PIM performance
- New 4.3-10 connectors for improved PIM performance and size reduction
- 2 input ports and 2 output ports
- Designed to boost UP-Link Coverage and KPIs
- Automatic LNA by-pass function
- Connectors "in line"
- TMA is operating in AISG mode
- Dual AISG with 2 RET connectors
- 1 device with 2 sub-units
- Built in lightning protection

OBSOLETE

Replaced By:

E14R00P41

Dual Band Tower Mounted Amplifier, 700//800 MHz, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET connector (1 device with 2 sub-units), with 4.3-10 connectors

Product Classification

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

General Specifications

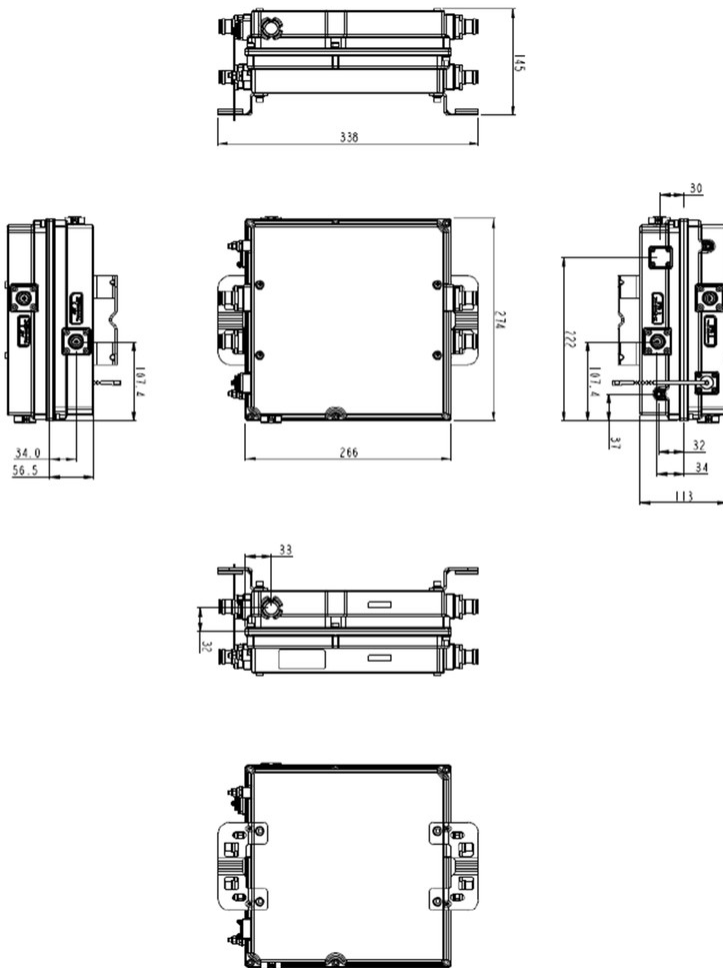
Color Gray
Modularity 2-Twin
Mounting Pipe Hardware Band clamps (2)
RF Connector Interface 4.3-10 Female

Dimensions

Height 140 mm | 5.512 in
Width 177 mm | 6.969 in
Depth 260 mm | 10.236 in
Mounting Pipe Diameter Range 42.6–122 mm

E14R00P43

Outline Drawing



Electrical Specifications

License Band, Band Pass	APT 700
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

Electrical Specifications, AISG

AISG Connector	8-pin DIN Female
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E14R00P43

AISG Connector Standard	IEC 60130-9
Protocol	AISG 2.0
Voltage, AISG Mode	10–30 Vdc

Electrical Specifications

Sub-module	1 2	1 2
Branch	1	2
Port Designation	ANT 700	ANT 800
License Band	APT 700, Band Pass APT 700, LNA	EDD 800, LNA
Return Loss, typical, dB	20	20
Return Loss - Bypass Mode, typical, dB	14	14

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	703–733	832–862
Bandwidth, MHz	30	30
Gain, nominal, dB	12	12
Noise Figure, typical, dB	1.25	1.3
Group Delay Variation, maximum, ns	30	60
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	120	220
Total Group Delay, typical, ns	90	180
Return Loss, minimum, dB	16	16
Insertion Loss - Bypass Mode, typical, dB	1.8	1.7

Electrical Specifications Tx (Downlink)

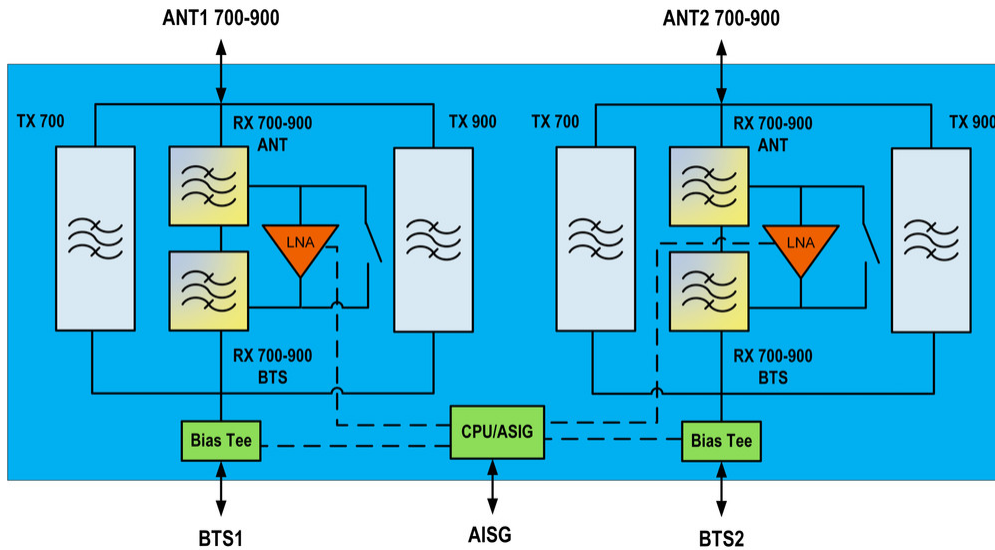
Frequency Range, MHz	758–788	791–821
Bandwidth, MHz	30	30
Insertion Loss, maximum, dB	0.7	0.7
Insertion Loss, typical, dB	0.5	0.5
Group Delay Variation, maximum, ns	10	18
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	45	55
Total Group Delay, typical, ns	35	45
Return Loss, minimum, dB	18	18

E14R00P43

Return Loss, typical, dB	20	20
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

E14R00P43

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	7 L
Weight, net	11 kg 24.251 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