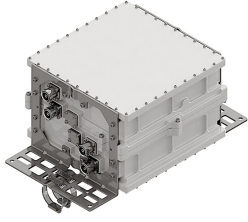


# E15Z01P68



## Penta Band Tower Mounted Amplifier, 700/850/900/1800/2100, 3 devices - 2 subunits each

- Industry leading PIM performance
- 2 input ports and 4 output ports
- Designed to boost UP-Link Coverage and KPIs
- 3 devices with 2 sub-units
- Single AISG with 1 RET connector
- RET interface to control antenna RET actuators with AISG standard

### OBSOLETE

This product was discontinued on: December 31, 2023

#### Replaced By:

E16Z01P68

Penta Band Tower Mounted Amplifier, 700/850/900/1800/2100, 3 devices - 2 subunits each, with 4.3-10 connectors

## Product Classification

**Product Type** 1-BTS:2-ANT (Diplex) | Tower mounted amplifier

## General Specifications

**Color** Gray

**Modularity** 2-Twin

**Mounting** Pole | Wall

**Mounting Pipe Hardware** Band clamps (2)

**RF Connector Interface** 7-16 DIN Female

## Dimensions

**Height** 314 mm | 12.362 in

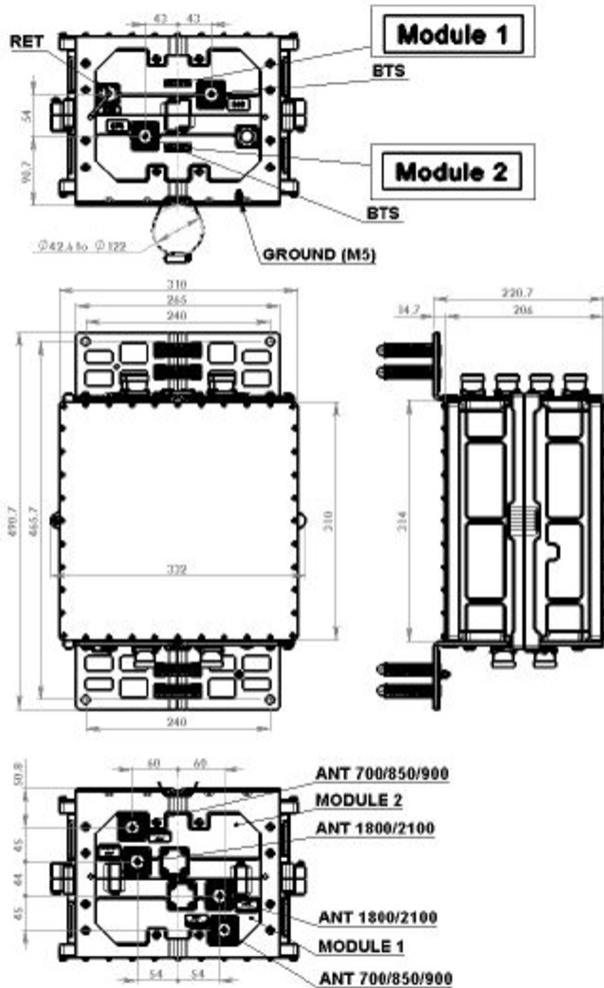
**Width** 310 mm | 12.205 in

**Depth** 206 mm | 8.11 in

**Mounting Pipe Diameter Range** 42.6–122 mm

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## Outline Drawing



## Electrical Specifications

**License Band, Band Pass** APT 700 | CEL 850 | CEL 900 | DCS 1800 | IMT 2100

**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

## Electrical Specifications, AISG

**AISG Connector** 8-pin DIN Female

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<b>AISG Connector Standard</b>	IEC 60130-9
<b>Protocol</b>	AISG 2.0
<b>Voltage, AISG Mode</b>	7–30 Vdc

## Electrical Specifications

Sub-module	1   2	1   2	1   2	1   2	1   2
<b>Branch</b>	1	2	3	4	5
<b>Port Designation</b>	ANT1	ANT	ANT	ANT	ANT
<b>License Band</b>	APT 700, Band Pass CEL 850, Band Pass CEL 900, Band Pass			DCS 1800, Band Pass	IMT 2100, Band Pass
<b>Return Loss, typical, dB</b>	20	20	20	20	20
<b>Return Loss - Bypass Mode, typical, dB</b>	20	16	16	16	16

## Electrical Specifications Rx (Uplink)

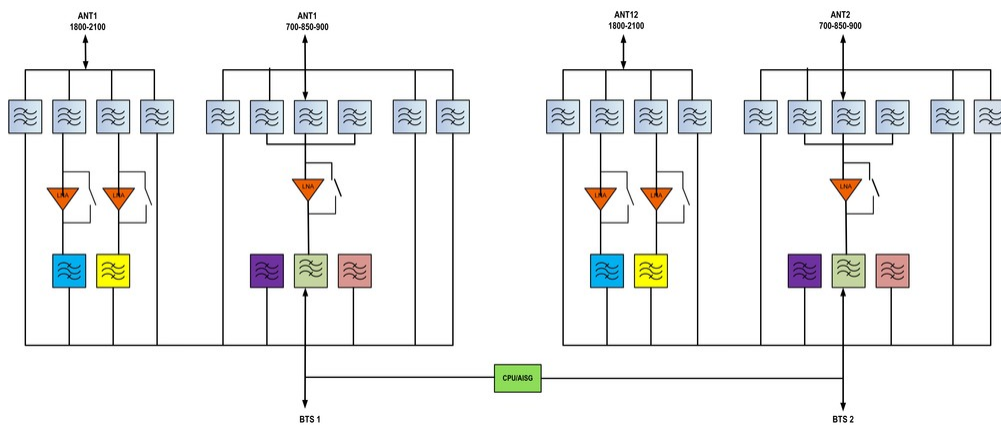
Frequency Range, MHz	723–748	825–835	906.8–915	1710–1785	1920–1980
<b>Bandwidth, MHz</b>	25	10	8.2	75	60
<b>Gain, nominal, dB</b>	12	12	12	12	12
<b>Noise Figure, typical, dB</b>	1.3	1.3	1.4	1.3	1.4
<b>Total Group Delay, typical, ns</b>	120	180	150	100	70
<b>Insertion Loss - Bypass Mode, typical, dB</b>	2.1	2.1	2.1	2.1	2

## Electrical Specifications Tx (Downlink)

Frequency Range, MHz	778–803	870–880	951.8–960	1805–1880	2110–2170
<b>Bandwidth, MHz</b>	25	10	8.2		60
<b>Insertion Loss, typical, dB</b>	0.5	0.35	0.5	0.5	0.4
<b>Total Group Delay, typical, ns</b>	70	60	180	50	25
<b>Return Loss, typical, dB</b>	21	20	20	20	20
<b>Input Power, RMS, maximum, W</b>	200	200	200		200
<b>Input Power, PEP, maximum, W</b>	2500	2500	2500		2500
<b>3rd Order PIM, typical, dBc</b>	-160	-160	-160	-160	-160
<b>3rd Order PIM Test Method</b>	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones	2 x 20 W CW tones

## Block Diagram

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## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +65 °C (-40 °F to +149 °F)
<b>Relative Humidity</b>	Up to 100%
<b>Corrosion Test Method</b>	IEC 60068-2-11, 30 days
<b>Ingress Protection Test Method</b>	IEC 60529:2001, IP67

## Packaging and Weights

<b>Included</b>	Mounting hardware
<b>Volume</b>	19.8 L
<b>Weight, net</b>	25.8 kg   56.879 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



## \* Footnotes

<b>License Band, Band Pass</b>	License Bands that are to be passed through with no amplification
<b>License Band, LNA</b>	License Bands that have RxUplink amplification