

# E15S02P76



Dual Band Tower Mounted Amplifier, 2100//2600, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET conector (2 devices with 2 sub-units each)

**OBSOLETE**

This product was discontinued on: December 30, 2024

Replaced By:

E16S02P65      Dual Band Tower Mounted Amplifier, 2100//2600, 12 dB, 2 BTS & 2 ANT ports, AISG with 1 RET conector, 4.3-10 connectors (2 device with 2 sub-units each)

## 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**      7-16 DIN Female

## Dimensions

**Height**      203 mm | 7.992 in

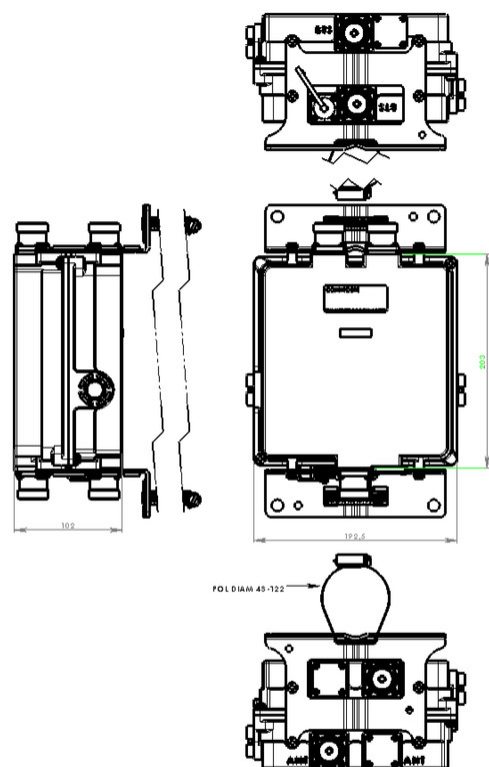
**Width**      192.5 mm | 7.579 in

**Depth**      102 mm | 4.016 in

**Mounting Pipe Diameter Range**      50–120 mm

## Outline Drawing

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## Electrical Specifications

**License Band, LNA** IMT 2100

## Electrical Specifications, dc Power/Alarm

<b>dc Switching/Redundancy</b>	Yes
<b>Lightning Surge Current</b>	10 kA
<b>Lightning Surge Current Waveform</b>	8/20 waveform
<b>Voltage</b>	7–30 Vdc
<b>Alarm Current, CWA Mode</b>	250 mA ±10 mA

## 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>	10–30 Vdc

## Electrical Specifications

<b>Sub-module</b>	<b>1   2</b>	<b>1   2</b>
<b>Branch</b>	1	1
<b>Port Designation</b>	ANT	ANT
<b>License Band</b>	IMT 2100, LNA	IMT 2100, LNA
<b>Return Loss, typical, dB</b>	20	20
<b>Return Loss - Bypass Mode, typical, dB</b>	14	14

## Electrical Specifications Rx (Uplink)

<b>Frequency Range, MHz</b>	<b>1920–1980</b>	<b>2500–2570</b>
<b>Bandwidth, MHz</b>	60	70
<b>Gain, nominal, dB</b>	12	12
<b>Gain Tolerance, dB</b>	±1	±1
<b>Noise Figure, typical, dB</b>	1.5	1.8
<b>Group Delay Variation, maximum, ns</b>	12	10
<b>Group Delay Variation Bandwidth, MHz</b>	5	5
<b>Total Group Delay, maximum, ns</b>	30	40
<b>Return Loss, minimum, dB</b>	17	18
<b>Insertion Loss - Bypass Mode, typical, dB</b>	3	3

## Electrical Specifications Tx (Downlink)

<b>Frequency Range, MHz</b>	<b>2110–2170</b>	<b>2620–2690</b>
<b>Bandwidth, MHz</b>	60	70
<b>Insertion Loss, maximum, dB</b>	0.6	0.6
<b>Insertion Loss, typical, dB</b>	0.5	0.5
<b>Group Delay Variation, maximum, ns</b>	6	3
<b>Group Delay Variation Bandwidth, MHz</b>	5	5
<b>Total Group Delay, maximum, ns</b>	10	12
<b>Return Loss, minimum, dB</b>	17	18
<b>Input Power, RMS, maximum, W</b>	200	200
<b>Input Power, PEP, maximum, W</b>	2000	2000

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3rd Order PIM, maximum, dBc	-153	-153
3rd Order PIM Test Method	Two +43 dBm carriers	Two +43 dBm carriers



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**License Band, LNA**      License Bands that have RxUplink amplification

