

# E15S09P75



## Tower Mounted Amplifier, Dual DCS 1800 with AISG 2.0

- Industry leading PIM performance
- 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

### OBSOLETE

This product was discontinued on: December 31, 2023

#### Replaced By:

E14R00P02

Tower Mounted Amplifier, Dual DCS 1800 with AISG 2.0, 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** Pole | Wall

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

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

## Dimensions

**Height** 225 mm | 8.858 in

**Width** 227 mm | 8.937 in

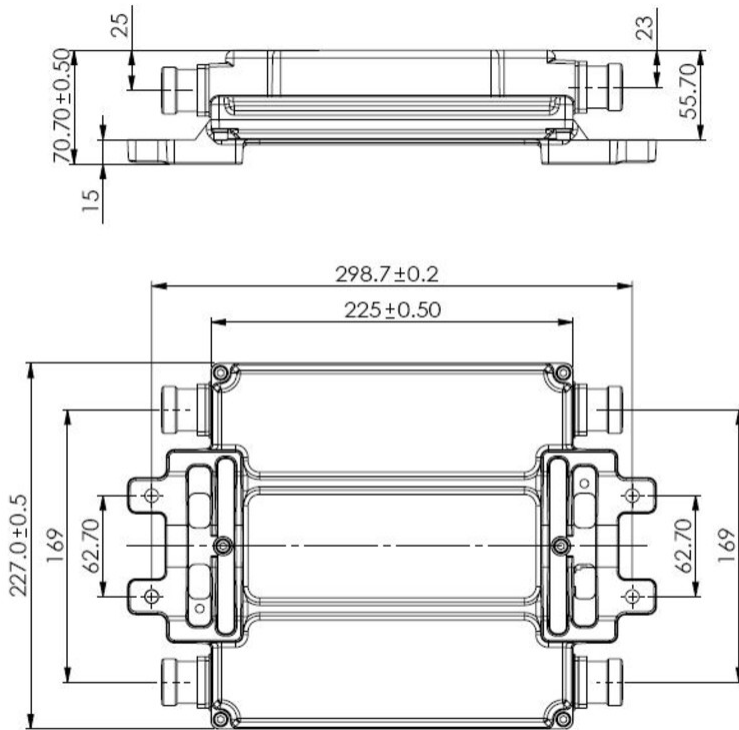
**Depth** 56 mm | 2.205 in

**Ground Screw Diameter** 8 mm | 0.315 in

**Mounting Pipe Diameter Range** 40–160 mm

## Outline Drawing

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## Electrical Specifications

**License Band, LNA** DCS 1800

## Electrical Specifications, dc Power/Alarm

**dc Switching/Redundancy** Yes  
**Lightning Surge Current** 10 kA  
**Lightning Surge Current Waveform** 8/20 waveform  
**Operating Current at Voltage** 110 mA @ 12 V  
**Operating Current Tolerance** ±20 mA  
**Voltage** 7–30 Vdc  
**Voltage, CWA Mode** 10–18 Vdc  
**Alarm Current, CWA Mode** 195 mA ±15 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>Branch</b>	1
<b>Port Designation</b>	ANT
<b>License Band</b>	DCS 1800, LNA
<b>Return Loss - Bypass Mode, typical, dB</b>	14
<b>TX Band Rejection, minimum, dB</b>	75

## Electrical Specifications Rx (Uplink)

<b>Frequency Range, MHz</b>	<b>1710–1785</b>
<b>Bandwidth, MHz</b>	75
<b>Gain, nominal, dB</b>	12
<b>Gain Tolerance, dB</b>	±1
<b>Noise Figure, maximum, dB</b>	1.8
<b>Noise Figure, typical, dB</b>	1.4
<b>Group Delay Variation, maximum, ns</b>	50
<b>Group Delay Variation Bandwidth, MHz</b>	5
<b>Total Group Delay, maximum, ns</b>	150
<b>Return Loss, minimum, dB</b>	18
<b>Insertion Loss - Bypass Mode, typical, dB</b>	3

## Electrical Specifications Tx (Downlink)

<b>Frequency Range, MHz</b>	<b>1805–1880</b>
<b>Bandwidth, MHz</b>	75
<b>Insertion Loss, maximum, dB</b>	0.7
<b>Insertion Loss, typical, dB</b>	0.4
<b>Insertion Loss Ripple, maximum, dB</b>	0.5

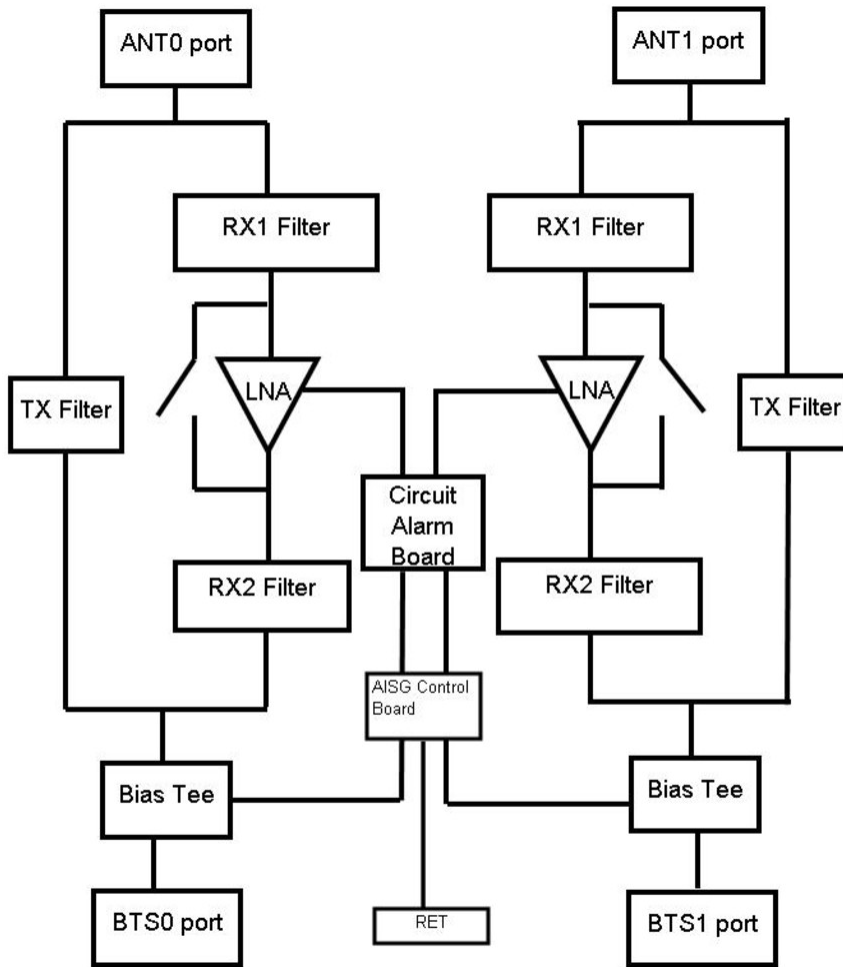
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<b>Group Delay Variation, maximum, ns</b>	13
<b>Group Delay Variation Bandwidth, MHz</b>	5
<b>Total Group Delay, maximum, ns</b>	45
<b>Return Loss, minimum, dB</b>	18
<b>RX Band Rejection, minimum, dB</b>	45
<b>Input Power, RMS, maximum, W</b>	200
<b>Input Power, PEP, maximum, W</b>	5000
<b>3rd Order PIM, typical, dBc</b>	-163
<b>3rd Order PIM Test Method</b>	Two +43 dBm carriers

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## Block Diagram



## Material Specifications

**Finish** Painted

## 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

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**Volume** 2.8 L  
**Weight, net** 4.5 kg | 9.921 lb

## Regulatory Compliance/Certifications

**Agency**

ISO 9001:2015



**Classification**

Designed, manufactured and/or distributed under this quality management system

### \* Footnotes

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