

E15S09P58



Tower Mounted Amplifier, Dual DCS 1800 with AISG 1.1 (CWA 185 mA)

OBSOLETE

This product was discontinued on: June 30, 2022

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

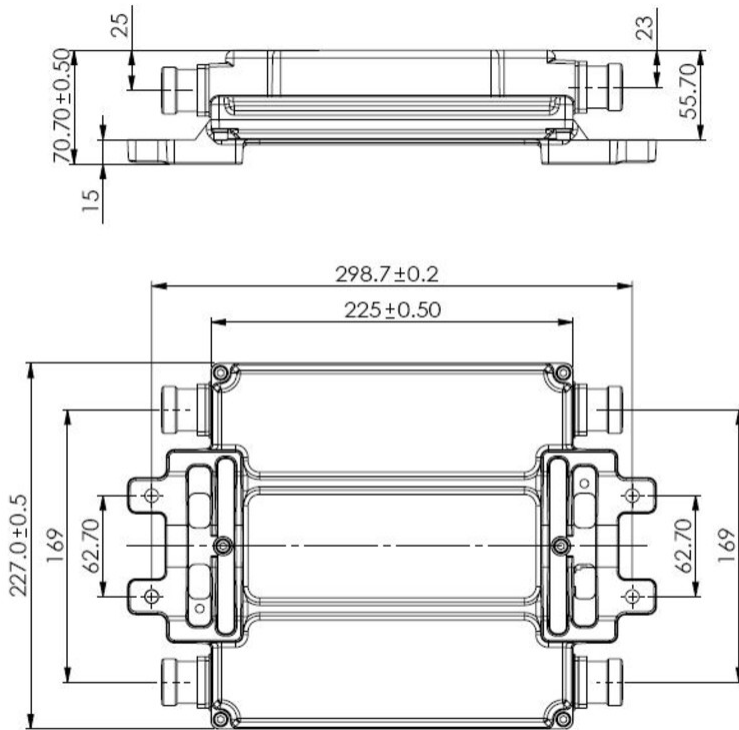
Color Gray
Modularity 2-Twin
Mounting Pole | Wall
Mounting Pipe Hardware Band clamps (2)
RF Connector Interface 7-16 DIN Female

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
Alarm Current, CWA Mode 185 mA ±10 mA

Electrical Specifications, AISG

AISG Connector 8-pin DIN Female
AISG Connector Standard IEC 60130-9

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Protocol	AISG 1.1
Voltage, AISG Mode	10–30 Vdc

Electrical Specifications

Sub-module	1 2
Branch	1
Port Designation	ANT
License Band	DCS 1800, LNA
Return Loss - Bypass Mode, typical, dB	14
TX Band Rejection, minimum, dB	75

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	1710–1785
Bandwidth, MHz	75
Gain, nominal, dB	12
Gain Tolerance, dB	±1
Noise Figure, maximum, dB	1.8
Noise Figure, typical, dB	1.4
Group Delay Variation, maximum, ns	50
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	150
Output IP3, minimum, dBm	23
Return Loss, minimum, dB	18
Insertion Loss - Bypass Mode, typical, dB	3

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	1805–1880
Bandwidth, MHz	75
Insertion Loss, maximum, dB	0.7
Insertion Loss Ripple, maximum, dB	0.5
Group Delay Variation,	13

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maximum, ns

Group Delay Variation 5

Bandwidth, MHz

Total Group Delay, maximum, ns 45

Return Loss, minimum, dB 18

RX Band Rejection, minimum, dB 45

Input Power, RMS, maximum, W 200

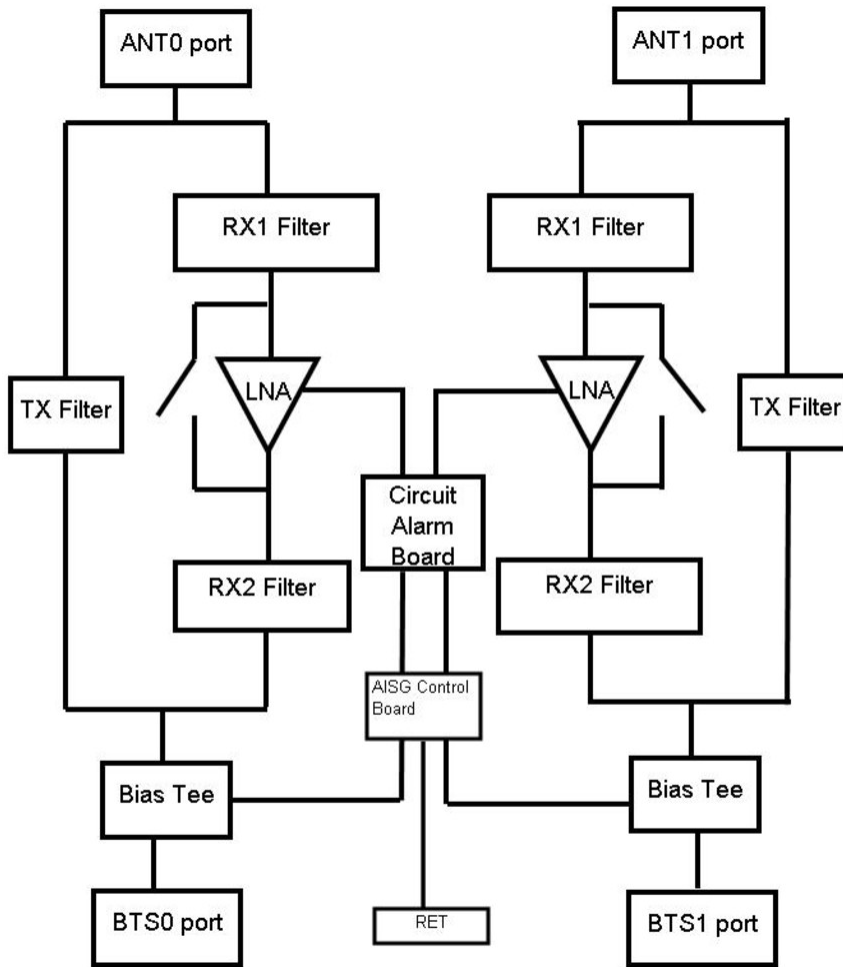
Input Power, PEP, maximum, W 5000

3rd Order PIM, maximum, dBc -153

3rd Order PIM Test Method 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