

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

#### **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

MountingPole | WallMounting Pipe HardwareBand clamps (2)RF Connector Interface7-16 DIN Female

RF Connector Interface Body Style Long neck

**Dimensions** 

 Height
 260 mm | 10.236 in

 Width
 170 mm | 6.693 in

 Depth
 90 mm | 3.543 in

 Ground Screw Diameter
 8 mm | 0.315 in

 Mounting Pipe Diameter Range
 40-160 mm

**Electrical Specifications** 

License Band, LNA DCS 1800

**COMMSCOPE®** 

## 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 120 mA @ 12 V

Operating Current Tolerance $\pm 20 \text{ mA}$ Voltage7-30 Vdc

Alarm Current, CWA Mode 190 mA ±10 mA

## Electrical Specifications, AISG

AISG Connector 8-pin DIN Female

AISG Connector Standard IEC 60130-9

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, 85

dВ

## Electrical Specifications Rx (Uplink)

1710-1785 Frequency Range, MHz Bandwidth, MHz 75 Gain, nominal, dB 12 Gain Tolerance, dB ±1 Noise Figure, maximum, dB 1.4 1.3 Noise Figure, typical, dB **Group Delay Variation,** 50 maximum, ns **Group Delay Variation** 5



#### Bandwidth, MHz

Total Group Delay, maximum, ns 150
ns 22

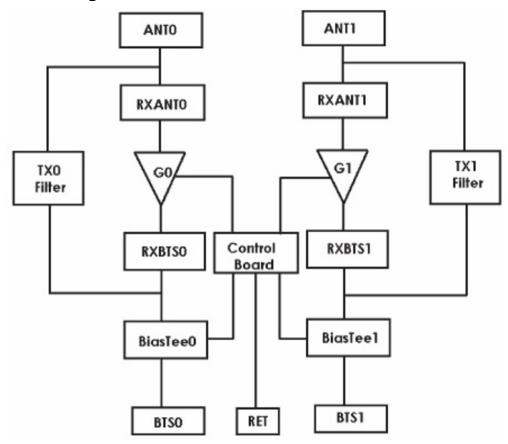
Return Loss, minimum, dB 18
Insertion Loss - Bypass 3
Mode, typical, dB

## 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, maximum, ns	11
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	45
Return Loss, minimum, dB	18
RX Band Rejection, minimum, dB	40
Input Power, RMS, maximum, W	200
Input Power, PEP, maximum, W	5000
3rd Order PIM, maximum, dBc	-155
3rd Order PIM Test Method	Two +43 dBm carriers



## Block Diagram



## Material Specifications

**Finish** Painted

## **Environmental Specifications**

**Operating Temperature**  $-40 \,^{\circ}\text{C}$  to  $+65 \,^{\circ}\text{C}$   $(-40 \,^{\circ}\text{F}$  to  $+149 \,^{\circ}\text{F})$ 

**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

IncludedMounting hardwareWeight, net5 kg | 11.023 lb

Regulatory Compliance/Certifications

**COMMSCOPE®** 

#### Agency

#### Classification

ISO 9001:2015

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



\* Footnotes

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

