

E15S09P80



Tower Mounted Amplifier, PCS

OBSOLETE

This product was discontinued on: February 20, 2019

Replaced By:

TMAT19-11-43
E14R00P13

Tower Mounted Amplifier, Twin PCS with AISG, 4.3-10 Connectors

Product Classification

Product Type 1-BTS:1-ANT (Uniplex) | Tower mounted amplifier

General Specifications

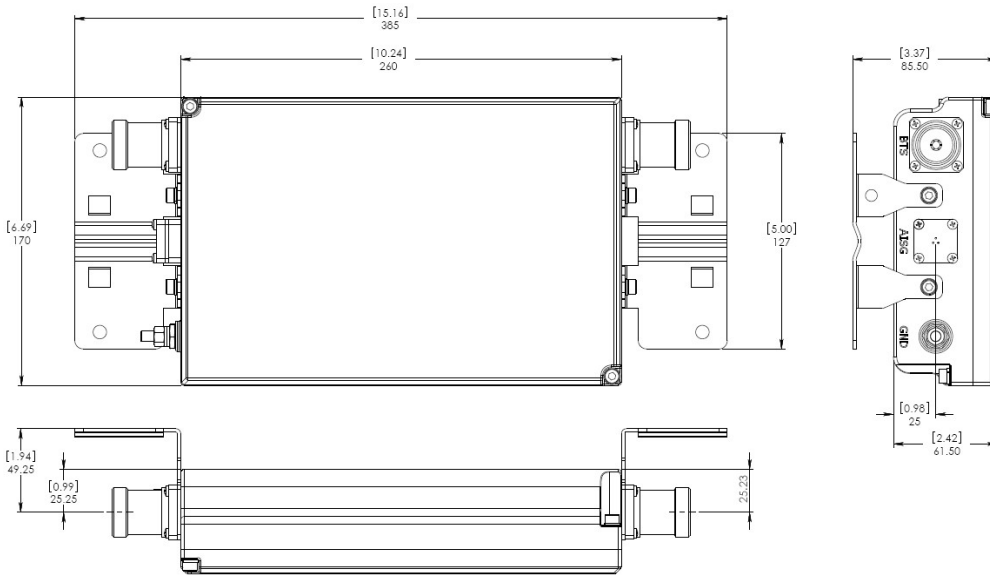
Color Gray
Modularity 1-Single
Mounting Pole | Wall
Mounting Pipe Hardware Band clamps (2)
RF Connector Interface 7-16 DIN Female
RF Connector Interface Body Style Long neck

Dimensions

Height 260 mm | 10.236 in
Width 170 mm | 6.693 in
Depth 61.5 mm | 2.421 in
Ground Screw Diameter 6 mm | 0.236 in
Mounting Pipe Diameter Range 40–160 mm

Outline Drawing

E15S09P80



Electrical Specifications

License Band, LNA	PCS 1900
Electrical Specifications, dc Power/Alarm	
Lightning Surge Current	20 kA
Lightning Surge Current Waveform	8/20 waveform
Operating Current at Voltage	100 mA @ 12 V
Operating Current Tolerance	±20 mA
Voltage	8–30 Vdc
Voltage, CWA Mode	10–18 Vdc
Alarm Current, CWA Mode	190–280 mA @ 10–18 V

Electrical Specifications

Sub-module	1
Branch	1
Port Designation	ANT
License Band	PCS 1900, LNA

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	1850–1910
Bandwidth, MHz	60

E15S09P80

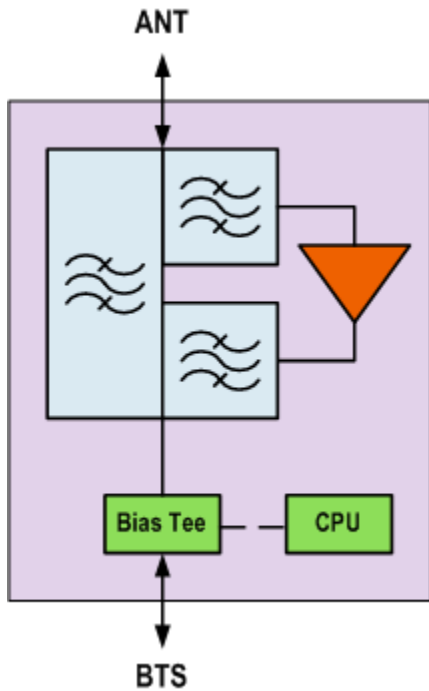
Gain, nominal, dB	12
Gain Tolerance, dB	±1.0
Noise Figure, typical, dB	1.3
Group Delay Variation, maximum, ns	50
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	150
Output IP3, minimum, dBm	26
Return Loss, minimum, dB	18
Insertion Loss - Bypass Mode, typical, dB	1.7

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	1930–1990
Bandwidth, MHz	60
Insertion Loss, maximum, dB	0.7
Insertion Loss, typical, dB	0.3
Group Delay Variation, maximum, ns	15
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	50
Return Loss, minimum, dB	18
Input Power, RMS, maximum, W	500
Input Power, PEP, maximum, W	5000
3rd Order PIM, typical, dBc	-150
3rd Order PIM Test Method	2 x 20 W CW tones

E15S09P80

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%

Ingress Protection Test Method IEC 60529:2001, IP67

Packaging and Weights

Included Mounting hardware

Weight, net 4 kg | 8.818 lb

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

Classification

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



E15S09P80

* Footnotes

License Band, LNA License Bands that have RxUplink amplification