

ETT19V2S12UB | E15S08P78



Tower Mounted Amplifier, Dual Band AWS/PCS with AISG

Product Classification

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

General Specifications

Color Gray

Modularity 1+1-Pair

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 238 mm | 9.37 in

Width 186 mm | 7.323 in

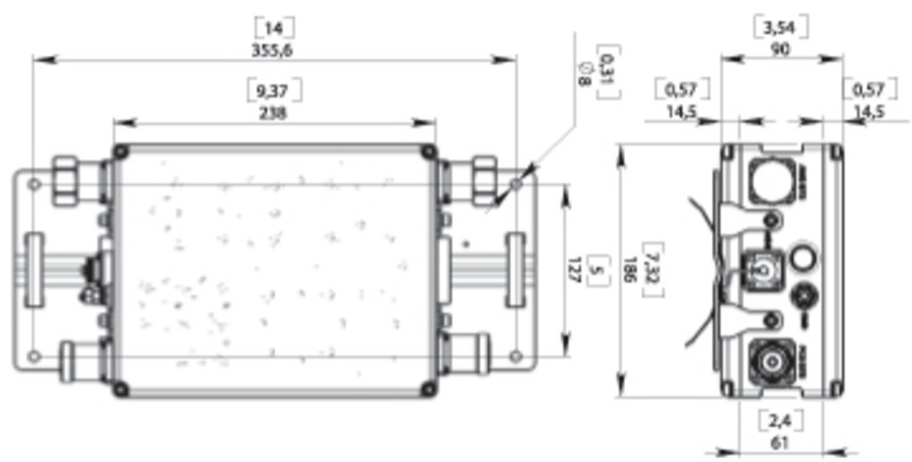
Depth 90 mm | 3.543 in

Ground Screw Diameter 6 mm | 0.236 in

Mounting Pipe Diameter Range 40–160 mm

Outline Drawing

ETT19V2S12UB | E15S08P78



Electrical Specifications

License Band, LNA AWS 1700 | PCS 1900

Electrical Specifications, dc Power/Alarm

dc Switching/Redundancy	Yes
Lightning Surge Current	20 kA
Lightning Surge Current Waveform	8/20 waveform
Operating Current at Voltage	135 mA @ 12 V
Operating Current Tolerance	±20 mA
Voltage	7–30 Vdc
Voltage, CWA Mode	10–18 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 2.0
Voltage, AISG Mode	10–30 Vdc

Electrical Specifications

Sub-module	1	2
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ETT19V2S12UB | E15S08P78

Branch	2	1
Port Designation	ANT PCS	ANT AWS
AISG 2.0 Device Subunit	E15S08P78 2	E15S08P78 1
License Band	PCS 1900, LNA	AWS 1700, LNA
Return Loss - Bypass Mode, typical, dB	16	16

Electrical Specifications Rx (Uplink)

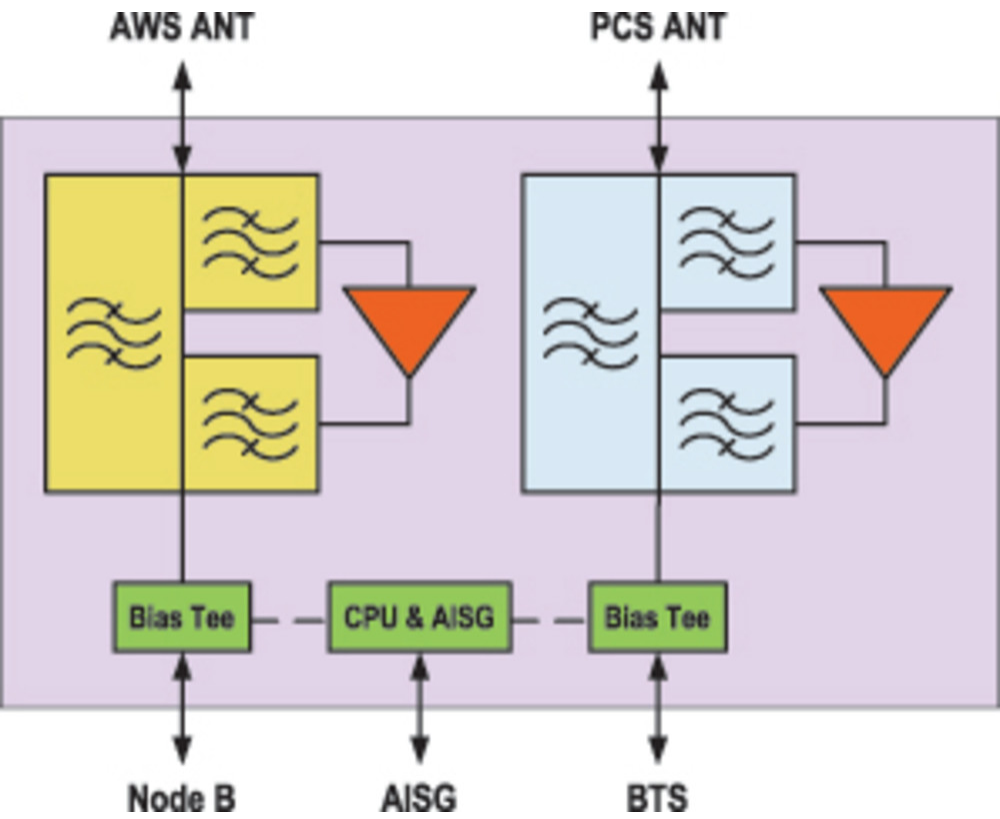
Frequency Range, MHz	1850–1910	1710–1755
Bandwidth, MHz	60	45
Gain, nominal, dB	12	12
Gain Tolerance, dB	±1	±1
Noise Figure, maximum, dB	2.1	1.6
Noise Figure, typical, dB	1.4	1.1
Group Delay Variation, maximum, ns	55	8
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	150	40
Output IP3, minimum, dBm	22	22
Return Loss, minimum, dB	18	18
Insertion Loss - Bypass Mode, typical, dB	2.85	1.6

Electrical Specifications Tx (Downlink)

Frequency Range, MHz	1930–1990	2110–2155
Bandwidth, MHz	60	45
Insertion Loss, maximum, dB	0.7	0.3
Group Delay Variation, maximum, ns	18	8
Group Delay Variation Bandwidth, MHz	5	5
Total Group Delay, maximum, ns	55	15
Return Loss, minimum, dB	18	18
Input Power, RMS, maximum, W	200	200
3rd Order PIM, typical, dBc	-153	-153
3rd Order PIM Test Method	2 x 20 W CW tones	1 x 20 W AWS CW tone 1 x 20 W PCS CW tone
VSWR Alarm Threshold, dB	9.54	9.54
VSWR Alarm Threshold Tolerance, dB	±2	±2

ETT19V2S12UB | E15S08P78

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

Weight, net 6.3 kg | 13.889 lb

Regulatory Compliance/Certifications

Agency **Classification**

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ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



* Footnotes

License Band, LNA License Bands that have RxUplink amplification