







ETT19V2S12UB

Tower Mounted Amplifier, Dual Band AWS/PCS with AISG

Electrical Specifications Rx (Uplink)

Bandwidth 60.00 MHz License Band PCS

Frequency Band 1850 – 1910 MHz

Gain 12 dB Gain Tolerance ±1

Noise Figure, Mid Band, typical1.40 dB @ 12 dBNoise Figure, Full Band, typical2.10 dB @ 12 dBOutput IP3, minimum22 dBm @ 12 dB

Return Loss, minimum 18 dB

Group Delay Variation, maximum 55 ns @ 5.00 MHz

Total Group Delay, maximum 150 ns

Electrical Specifications Tx (Downlink)

Bandwidth 60.00 MHz
Insertion Loss, maximum 0.70 dB
License Band PCS

Frequency Band 1930 – 1990 MHz

Return Loss, minimum 18 dB 3rd Order IMD -112 dBm

3rd Order IMD Test Method Two +43 dBm carriers

Input Power, RMS, maximum 200 W

Group Delay Variation, maximum 18 ns @ 5.00 MHz

Total Group Delay, maximum 55 ns

Electrical Specifications 2 Rx (Uplink)

License Band AWS

Frequency Band 1710 - 1755 MHz
Bandwidth 45.00 MHz
Gain 12 dB

Gain Tolerance ±1

Noise Figure, Mid Band, typical 1.10 dB @ 12 dB Noise Figure, Full Band, typical 1.60 dB @ 12 dB

Output IP3, mimimum 22 dBm Return Loss, minimum 18 dB

Group Delay Variation, maximum 8 ns @ 5.00 MHz

Total Group Delay, maximum 40 ns



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Electrical Specifications 2 Tx (Downlink)

Bandwidth 45.00 MHz
Insertion Loss, maximum 0.30 dB
License Band AWS

Frequency Band 2110 – 2155 MHz

Return Loss, minimum 18 dB 3rd Order IMD -112 dBm

3rd Order IMD Test Method Two +43 dBm carriers

Input Power, RMS, maximum 200 W

Group Delay Variation, maximum 8 ns @ 5.00 MHz

Total Group Delay, maximum 15 ns

Electrical Specifications

Protocol AISG 2.0

Voltage 7–30 Vdc

Operating Current at Voltage 135 mA @ 12 V

Operating Current Tolerance ±20 mA

Alarm Functionality

AISG | Failure current

Failure Current Consumption

180–200 mA @ 10–18 V

RET System Compatible

1 Output, 24 Vdc and RS-485

Lightning Surge Capability Test Method IEEE C62.42-1991 Lightning Surge Capability Waveform 8/20 waveform

Lightning Surge Current 20 kA

VSWR Alarm Threshold 9.54 dB

VSWR Alarm Threshold Tolerance ±2

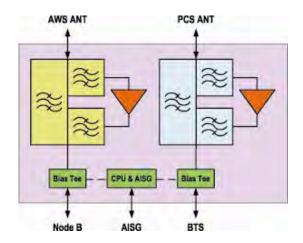


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Block Diagram



Mechanical Specifications

Connector Interface 7-16 DIN Female
Connector Interface Style Long neck
Ground Screw Diameter 6.00 mm

AISG Connector Standard IEC 60130-9
Finish Painted
Color Gray
Mounting Pipe Diameter 40-160 mm

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

Dimensions

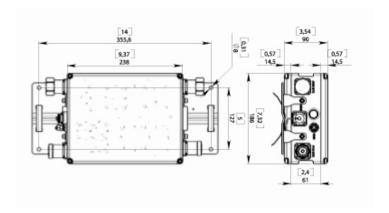
Height	238.0 mm 9.4 in
Width	186.0 mm 7.3 in
Depth	90.0 mm 3.5 in
Weight	6.3 kg 13.9 lb



ETT19V2S12UB



Outline Drawing



Packed Dimensions

Height 500.0 cm | 196.9 in

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system