



E15Z01P17

Tower Mounted Amplifier, Diplexed Dual Band 850/1900 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, typical	1.50 dB @ 12 dB
Noise Figure, Full Band, typical	2.10 dB @ 12 dB
Output IP3, minimum	21 dBm @ 12 dB
Return Loss, minimum	18 dB
Group Delay Variation, maximum	50 ns @ 5 MHz
Total Group Delay, maximum	180 ns

Electrical Specifications Tx (Downlink)

Bandwidth	60.00 MHz
Insertion Loss, maximum	0.90 dB
License Band	PCS
Frequency Band	1930 – 1990 MHz
Return Loss, minimum	18 dB
3rd Order IMD	-107 dBm
3rd Order IMD Test Method	Two +43 dBm carriers
Input Power, RMS, maximum	300 W
Input Power, PEP, maximum	3000 W
Group Delay Variation, maximum	20 ns @ 5 MHz
Total Group Delay, maximum	60 ns

Electrical Specifications 2 Rx (Uplink)

License Band	Cellular
Frequency Band	824 – 849 MHz
Bandwidth	25.00 MHz
Gain	12 dB
Gain Tolerance	±1
Noise Figure, Mid Band, typical	1.10 dB @ 12 dB
Noise Figure, Full Band, typical	1.70 dB @ 12 dB
Output IP3, minimum	25 dBm

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Return Loss, minimum	18 dB
Group Delay Variation, maximum	270 ns @ 5 MHz
Total Group Delay, maximum	370 ns

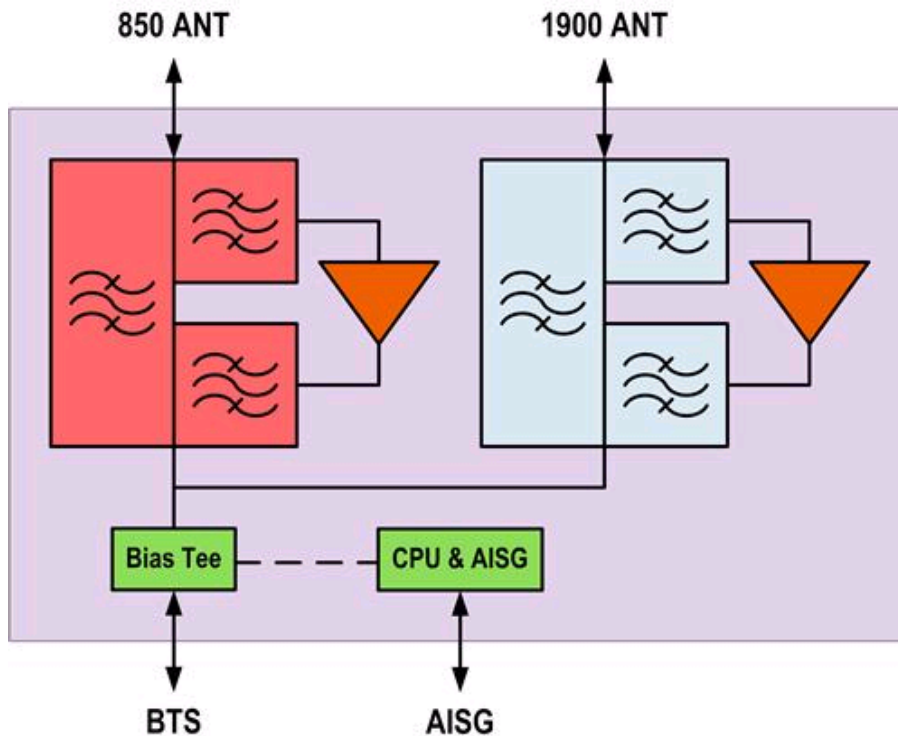
Electrical Specifications 2 Tx (Downlink)

Bandwidth	25.00 MHz
Insertion Loss, maximum	0.50 dB
License Band	Cellular
Frequency Band	869 – 894 MHz
Return Loss, minimum	18 dB
3rd Order IMD	-107 dBm
3rd Order IMD Test Method	Two +43 dBm carriers
Input Power, RMS, maximum	500 W
Input Power, PEP, maximum	5000 W
Group Delay Variation, maximum	25 ns @ 5 MHz
Total Group Delay, maximum	65 ns

Electrical Specifications

Protocol	AISG 1.1 AISG 2.0
Default Protocol	AISG 2.0
Operating Current at Voltage	240 mA @ 10–18 V
Voltage	7–30 Vdc
Operating Current Tolerance	±30
Alarm Functionality	AISG Failure current
Failure Current Consumption	30–170 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	5 kA

Block Diagram



Mechanical Specifications

Connector Interface	7-16 DIN Female
Connector Interface Style	Long neck
Ground Screw Diameter	6.00 mm
Wind Loading, maximum	60 N @ 115 km/h 13 lbf @ 115 km/h
AISG Connector Standard	IEC 60130-9
Finish	Painted
Color	Gray
Mounting Pipe Hardware	Bolt clamps
Mounting Pipe Diameter	50-120 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	330.0 mm 13.0 in
Width	184.0 mm 7.2 in

Product Specifications

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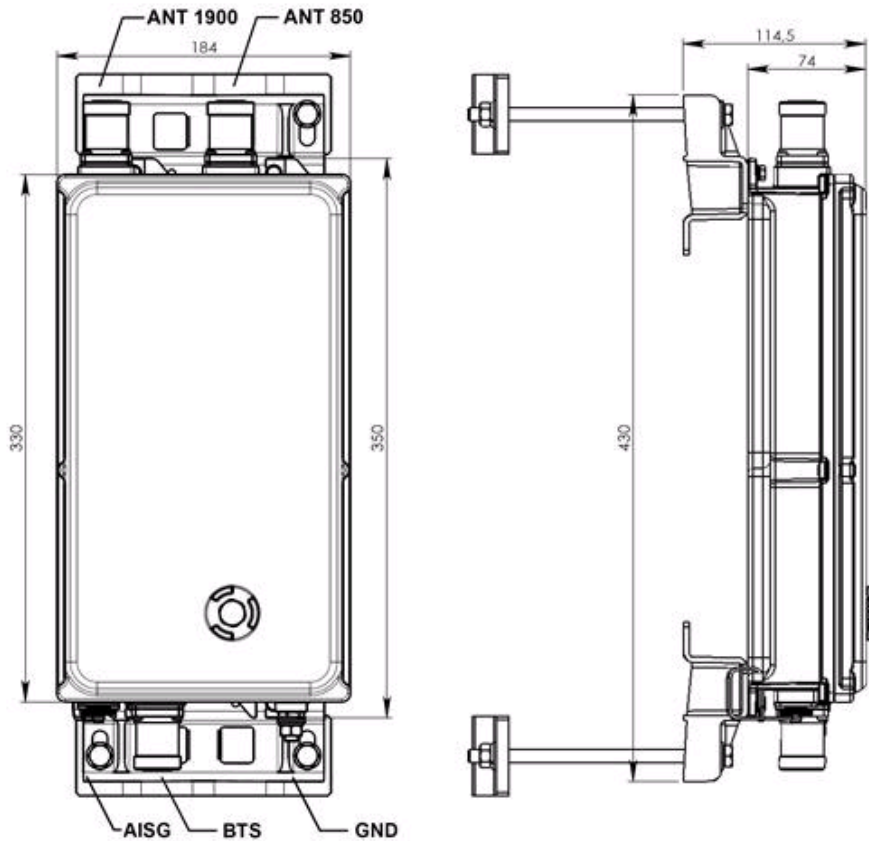


Depth	74.0 mm 2.9 in
Weight	5.0 kg 11.0 lb

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Outline Drawing



Regulatory Compliance/Certifications

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