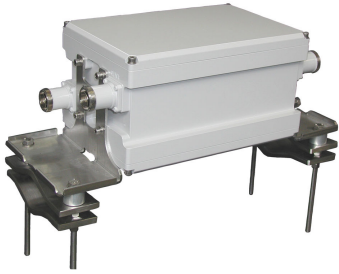


E15R01P88



Tower Mounted Amplifier, Dual GSM/UMTS 900

OBSOLETE

This product was discontinued on: June 30, 2022

Replaced By:

E16R01P97

Tower Mounted Amplifier, Dual GSM/UMTS 900 with AISG

Product Classification

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

General Specifications

Color Gray

Modularity 2-Twin

Mounting Pole | Wall

Mounting Pipe Hardware Bolt 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 140 mm | 5.512 in

Ground Screw Diameter 8 mm | 0.315 in

Mounting Pipe Diameter Range 40–160 mm

Electrical Specifications

License Band, LNA CEL 900

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Electrical Specifications, dc Power/Alarm

Lightning Surge Current	20 kA
Lightning Surge Current Waveform	8/20 waveform
Operating Current at Voltage	100 mA @ 12 Vdc
Operating Current Tolerance	±10 mA
Voltage	7–30 Vdc
Alarm Current, CWA Mode	185 mA ±10 mA

Electrical Specifications

Sub-module	1 2
Branch	1
Port Designation	ANT
License Band	CEL 900, LNA
Return Loss - Bypass Mode, typical, dB	14
TX Band Rejection, minimum, dB	80

Electrical Specifications Rx (Uplink)

Frequency Range, MHz	880–915
Bandwidth, MHz	35
Gain, nominal, dB	12
Gain Tolerance, dB	±1
Noise Figure, maximum, dB	1.6
Noise Figure, typical, dB	1.3
Group Delay Variation, maximum, ns	60
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	200
Output IP3, minimum, dBm	22
Return Loss, minimum, dB	18
Insertion Loss - Bypass Mode, typical, dB	3

Electrical Specifications Tx (Downlink)

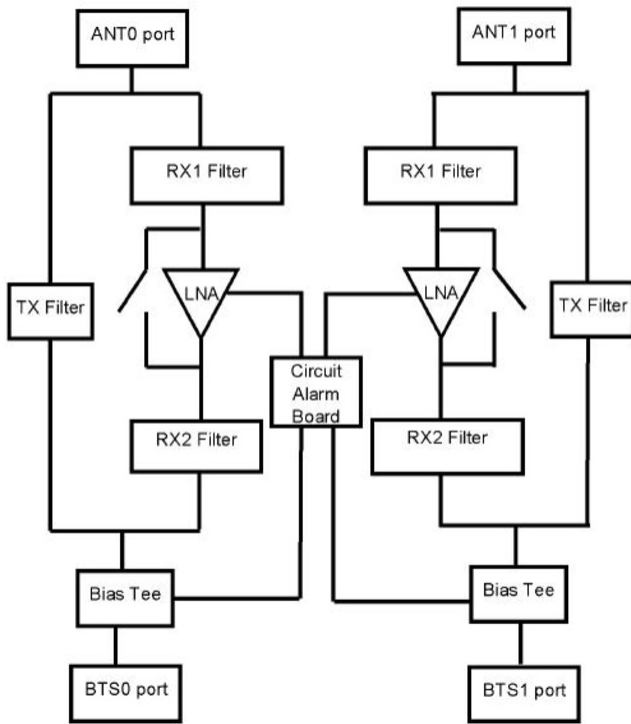
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Frequency Range, MHz	925–960
Bandwidth, MHz	35
Insertion Loss, maximum, dB	0.7
Insertion Loss Ripple, maximum, dB	0.5
Group Delay Variation, maximum, ns	28
Group Delay Variation Bandwidth, MHz	5
Total Group Delay, maximum, ns	78
Return Loss, minimum, 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	-159
3rd Order PIM Test Method	Two +43 dBm carriers

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Block Diagram

Schematic



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 8 kg | 17.637 lb

Regulatory Compliance/Certifications

Agency **Classification**

E15R01P88

ISO 9001:2015

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



* Footnotes

License Band, LNA

License Bands that have RxUplink amplification