

Model ASC350L (930 MHz to 2050 MHz) Beacon Receiver

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Functional Description

The Model **ASC350L Beacon Receiver** is a high stability unit that is designed to real time track the power density of a satellite beacon and output a DC voltage that is linearly proportional to the beacon power by utilizing a true, RMS-responding power detector. The applications for the **ASC350L** are for antenna step track controlling and uplink power control system.

The **ASC350L** is a modular unit that is designed to be remotely controlled by means of a RS232 or RS422 interface. The compact design of the unit makes it ideal for mounting directly into a transportable antenna system where space is at a premium. All monitoring and control functions are provided by a common DB-15 connector. By utilizing a wide range of DC voltage for powering the unit makes for a more flexible user interface.



Systems Specifications:

Input Frequency 940 MHz to 2050 MHz
 Warm up from cold start.....< 2 Minutes within 1 dB
 Temperature Stability..... ± 1.5 dB Peak, 0 to +55 deg. C
 Input Level Range.. -85 to -35 dBm for full tracking range
 Frequency Tuning..... 10 kHz Steps
 Frequency Adjust..... Remotely
 Attenuation Adjust..... Remotely
 Attenuation Steps 0.5 dB-Hz
 AFC..... ± 30 kHz
 Threshold..... <45 dB-Hz
 Input Impedance 50 Ohm
 Input Connector SMA, Female (Optional 75 ohm F)
 Output Impedance 100 Ohm, single ended
 Tracking Voltage 0 to +10 VDC for 20 dB input level Change.
 Tracking Voltage Response..... 400 ms, 0 to 10 VDC
 System Level Range..... 60 dB
 System Level Adjust 0 to 50 dB, 0.5 dB steps
 Frequency Stability < ± 2 ppm
 Phase Noise <75 dBc-Hz, 1 kHz from carrier
 Alarms..... Unit Lock
 Alarm Relay Form C, Normally Closed

Continuous Digital Streaming.....RS-232 (optional)
 Power +12 to +24 VDC @10 watts

Interface:

Connector..... DB-15, Male
 M & C 9600,N,8,1 RS-232 or RS-422 (optional)
 Power Connector Plug (supplied).... Conxall (6282-2PG-3DC)

Physical Characteristics:

Size 9"L X 4.25"W X 1.15"H
 Weight 1 lb. (454 g)

Environmental Specifications:

Operating Temperature Range 0°C to +55°C
 Storage Temperature -40°C to +70°C
 Humidity 95% RH@ 40°C

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