

Model ASC350L(940 MHz to 2150 MHz) Beacon Receiver

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Functional Description

The Model **ASC350L Beacon Receiver** is a high performance 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 2150 MHz
 Input Level -85 dBm, min.; -35 dBm max.
 Frequency Tuning..... 10 kHz Steps
 Frequency Adjust..... Remotely
 Attenuation Adjust Remotely
 Attenuation Steps 0.5 dB
 AFC \pm 30 kHz
 Threshold..... <45 dB-Hz
 Input Impedance..... 50 Ohm
 Input Connector SMA-Type, Female
 Output Impedance..... 100 Ohm, single ended
 Input/Output Connector DB-15 Male
 Tracking Response 0 to +10 VDC
 for a 20 dB input level change
 System Level Range 50 dB
 System Level Adjust..... 0 to 50dB, 0.5dB Steps
 Frequency Stability..... \pm 2 ppm

Phase Noise.....>75 dB-Hz, 1 kHz from Carrier
 Alarms..... Unit Lock
 Alarm Relay..... Form-A
 M&C RS-232 & RS-422(Selectable)

Physical Characteristics

Size9"L X 4.25"W X 1.15"H
 Weight..... 1 lb. (454 g)
 Primary Power..... +15 to +24 VDC, (9Watts)

Environmental Specifications:

Operating Temperature..... 0^oc to +50^o c
 Storage Temperature -40^oc to +70^o c
 Humidity 95% RH@ 40^o c

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* CDS Continuous Digital Streaming

The streaming option associated with the ASC300 series of beacon receivers provides a continuous, two byte, data stream running at 9600 baud that contains ten bits of signal strength level indication as well as lock or alarm condition of the unit. Other baud rates are available. A male DB15 with dedicated pins, RS-232 interface connector unit is specifically dedicated for this option.