

# Model ASC350LHSIB-LNB (940 MHz to 2150 MHz) Beacon Receiver

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## Functional Description

The Model **ASC350LHSIB-LNB 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 **ASC350LHSIB-LNB** are for antenna step track controlling and uplink power control system.

The **ASC350LHSIB-LNB** is a board unit that is designed to be remotely controlled by means of a RS232 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 TB-9 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  
 Level Stability .....  $\pm 1.5$  dB Peak, -20 to +55 deg.C  
 ..... Non-condensing  
 Warm Up Time ..... < 2 Minutes within 1 dB  
 Input Level Range.. -85 to -35 dBm for full tracking range  
 Frequency Tuning ..... 10 kHz Steps  
 Frequency Adjust ..... Remotely  
 AFC .....  $\pm 30$  kHz  
 Attenuation Adjust..... Remotely  
 Attenuation Steps..... 0.5 dB  
 Attenuation Range ..... 50dB  
 Pre-detection Bandwidth ..... 60 kHz  
 Threshold ..... <45 dB-Hz  
 Input Impedance ..... 50 Ohm  
 Input Connector ..... SMB, Female  
 Output Impedance ..... 100 Ohm, single ended  
 Output Voltage 0 to 10 VDC for 20 dB input level change  
 Output Voltage Response..... 400 ms, 0 to 10 VDC  
 Output Voltage Stability Time < 2 min. to within 1 dB from cold start  
 Input Power ..... + 12 to + 24 VDC  $\pm 10\%$  @ 10 Watts  
 LNB Power .... RF port, same as input voltage ( $\leq 300$  ma)  
 Alarm Relay ..... Form C, Normally Closed

## Interface:

Connector ..... 9 Pin Terminal Block  
 M & C ..... 9600,N,8,1 RS-232  
 Power Connection ..... 2 Pin Terminal Block

## Physical Characteristics:

Size ..... 8.3"L X 4.9"W X 1.1"H  
 Weight ..... 1 oz. (198 g)

## Environmental Specifications:

Operating Temperature Range ..... - 20°C to +55°C  
 Storage Temperature ..... -40°C to +70°C  
 Humidity ..... 95% RH@ 40°C

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