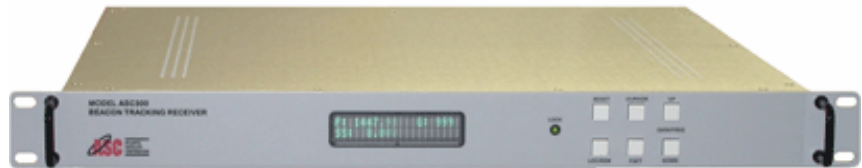


Model ASC 300C Beacon Tracking Receiver

Quality Products @ Reasonable Prices



Functional Description

The Model **ASC300C Beacon Tracking 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 **ASC300C** are for antenna tracking controllers and uplink power control system. Note: The model ASC300C can be offered with external BDC instead of an internal BDC.

Systems Specifications

Input Frequency 3400.000 to 4200.000 MHz
 **Internal Block Converter**
 Pre-detection Bandwidth 40 kHz
 Input Level..... 80 dBm, min.; -50 dBm max.
 For full tracking range capability
 Frequency Tuning 10 kHz Steps
 5 kHz Steps (Optional)
 Frequency Adjust Front Panel or Remotely
 AFC ± 20 kHz
 Threshold <45 dB-Hz (C/N_0) for acquisition
 Input Impedance 50 Ohm
 Input Connector..... Type-N, Female
 Output Impedance..... 100 Ohm, single ended
 Output Connector..... Terminal plug and
 BNC Female
 Tracking Gradient..... 0.5 V/dB, Std
 Tracking Response 0 to +10 VDC
 for a 20 dB input level change
 System Level Adjust..... 30 dB, Linear
 Frequency Stability..... <1 ppm, 0° c to $+50^\circ$ c
 Frequency Reference..... 10 MHz (Internal)
 Phase Noise..... >75 dB-Hz, 1 kHz from Carrier

Alarms Unit Lock
 Alarm Relay Form-C
 External Power..... None (Internal BDC)
 External Power..... +24 VDC, switchable In-Out
 500 ma Max. (External BDC)
 Continuous Digital Streaming.. RS-232 or RS-422
 DB9 interface connector.. (optional) See Below *
 Front Panel Display..... Vacuum Fluorescent
 M&C RS-232 or RS-422/485 Switchable
 on rear panel
 Ethernet 10/100 Base T (**Optional**)
 M&C Connector..... DB-9, Female
 RJ-45 Connector

Physical Characteristics

Size 1.75"H X 16.00"D X 19.00"W
 Weight..... 9 lb. (4.08 kg)
 Primary Power..... 90 - 264 VAC 47 - 63Hz, 1.4 A
 Auto-Sensing

Environmental Specifications:

Operating Temperature..... 0° c to $+50^\circ$ c
 Storage Temperature -40° c to $+70^\circ$ c
 Humidity 95% RH@ 40° c

* CDS Continuous Digital Streaming

The streaming option associated with the ASC300 series of beacon tracking receivers provides a continuous, two byte, data stream running at 9600 baud that contains twelve bits of signal strength level indication as well as lock or a alarm condition of the unit. Other baud rates are available. A female DB9, interface connector on the rear of the unit is specifically dedicated for this option.