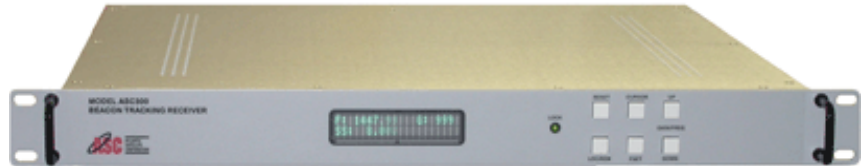


Model ASC 300C Beacon Receiver

Quality Products @ Reasonable Prices



Functional Description

The Model **ASC300C 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 **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 60 kHz
Input Level - 90 dBm, min.; - 30 dBm max.
..... For full tracking range capability
Frequency Tuning 10 kHz Steps
Frequency Adjust Front Panel or Remotely
AFC ± 30 kHz
Threshold <45 dB-Hz (C/N₀) 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 0 to 60 dB, 0.5 dB Steps
Frequency Stability <1 ppm, 0^o c to +50^o 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)
CDS (**Optional**) DB-9, RS-232
DB9 interface connector (optional) See Below *
Front Panel Display Vacuum Fluorescent
M&C RS-232 or RS-422/485 Switchable
on rear panel
M&C Connector DB-9, Female
Ethernet 10/100 Base T (**Optional**) .. 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
..... Auto-Sensing

Environmental Specifications:

Operating Temperature 0^o c to +50^o c
Storage Temperature -40^o c 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. A female DB9, interface connector on the rear of the unit is specifically dedicated for this option.