

Model ASC 300D-70 Beacon Tracking Receiver

Quality Products @ Reasonable Prices



Functional Description

The Model **ASC300D-70 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 **ASC300D-70** are for antenna step track controlling and uplink power control system.

Systems Specifications

Input Frequency 68.00 to 72.00 MHz
 Pre-detection Bandwidth 30 kHz Std
 Input Level..... -90 dBm, min.; -30dBm, max.
 For full tracking range capability
 Frequency Tuning 10 kHz Steps
 Frequency Adjust Front Panel or Remotely
 Threshold . Adjustable on 0.1V(0.2 dB input level
 change)
 Input Impedance 50 Ohm
 Input Connector..... SMA, Female
 Output Impedance..... 100 Ohm, single ended
 Output Connector.... Terminal plug, BNC Female
 and SMA Female
 Tracking Response 0 to +10 VDC for a
 20 dB input level change
 System Level Adjust..... 0 to 60 dB, 0.5dB Steps
 Frequency Stability..... <1 ppm, 0^oc to +50^o c

Phase Noise..... >75 dB-Hz, 1 kHz from Carrier
 Alarms Unit Lock
 Alarm Relay..... Form-C
 External LNB Power..... None
 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 Switchable
 on rear panel.
 Ethernet 10/100 Base T (**Optional**)
 Ethernet Interface..... RJ-45 Connector
 M&C Connector..... DB-9, Female

Physical Characteristics

Size 1.75"H X 16.00"D X 19.00"W
 Weight 8 lb. (3.63 kg)
 Primary Power..... 90 - 264 VAC 47 - 63Hz, 1.4 A
 Auto-Sensing

Environmental Specifications:

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

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