

Model ASC 300-L (950 MHz to 2050 MHz) Beacon Tracking Receiver

Quality Products @ Reasonable Prices



Functional Description

The Model **ASC300–L 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 **ASC300-L** are for antenna step track controlling and uplink power control system.

Systems Specifications

Input Frequency950 MHz to 2050 MHz
Pre-detection Bandwidth40 kHz
Input Level80 dBm, min.; -50 dBm max.
For full tracking range capability
Frequency Tuning10 kHz Steps
Frequency AdjustFront Panel or Remotely
AFC <u>+</u> 20kHz
Threshold<45 dB-Hz (C/N ₀) for acquisition
Input Impedance75 Ohm
Input ConnectorType-F, Female
Output Impedance100 Ohm, single ended
Output ConnectorTerminal plug and
BNC Female
Tracking Gradient0.5 V/dB, Std
Tracking Response 0 to +10 VDC
for a 20 dB input level change
System Level Adjust30 dB, Linear
Frequency Stability<1 ppm, 0°c to +50° c
Frequency Reference10 MHz (Internal)
Phase Noise>75 dB-Hz, 1 kHz from Carrier
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Alarms	Unit Lock	
	Form-C	
	r+24 VDC, switchable In-Out,	
.500 ma, max.	+15 and +18 VDC Optional	
	Streaming (CDS)DB-9, RS-232	
_	(optional) See Below *	
Front Panel Display	Vacuum Fluorescent	
	or RS-422/485 Switchable on rear	
panel E	thernet 10/100 Base T (Optional)	
M&C Connector	DB-9, Female	
	RJ-45 Jack connector	
Physical Characteristics		
Siza	1 75"H X 16 00"D X 19 00"W	

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
-	AutoSensing

Environmental Specifications:

Operating Temperature	
Storage Temperature	40 $^{\circ}$ c to +70 $^{\circ}$ c
Humidity	95% RH@ 40° c

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* 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 2400 baud that contains twelve bits of signal strength level indication as well as lock or alarm condition of the unit. Other baud rates are available. A female DB9, RS-232, interface connector on the rear of the unit is specifically dedicated for this option.