

MODEL

TR70-1A

TRACKING

RECEIVER



The VertexRSI TR70-1A Tracking Receiver is a 70 MHz intermediate frequency beacon receiver designed to provide DC tracking voltage proportional to input RF signal strength for step track antenna pointing applications and uplink power control.

The TR70-1A has been designed with careful attention to reliability, flexibility, and ease of operation and maintenance.

The TR70-1A Tracking Receiver accepts an RF input at 70 MHz, amplifies and converts it to 10.7 MHz IF, which is filtered and processed to provide two separately buffered proportional DC output voltages in the range of 0 to 10 volts DC.

A form-C summary alarm output provides for remote fault monitoring and is activated any time the TR70-1A internal fault detection circuitry detects a fault.

Key Features

- Simple operation
- Wide dynamic range
- Dual DC outputs
- Summary alarm status provided via contact closure
- Output voltage is temperature stable
- Good for uplink power control applications

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Specifications

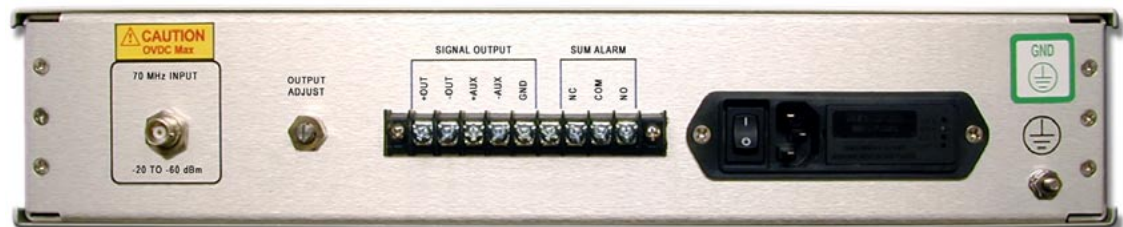
Input Frequency	70 MHz
RF Signal Input Impedance	50 Ω
Input Connector	Type BNC-Female
Input Signal Level Range	-20 to -60 dBm, Nominal
VSWR	1.5:1, Maximum
Minimum Input C/No	57 dB-Hz
Minimum Detection Type	Noncoherent envelope detector
Pre-detection Bandwidth	185 KHz, Nominal
AFC Capture Range	300 KHz, Nominal
Output Voltage Range	0 to 10 VDC
Gradient*	0.2 \pm .03 Volts/dB, Specified over operating temperature range *Contact manufacturer for other slope settings

Physical Data

Dimensions (in.)	3.5H 19W 19D (2 EIA Rack Units)
Power	120/220/240 VAC \pm 10%, 50/60 Hz, 50 VA
Operating Temp. Range	0 to 50°C
Storage Temp. Range	-15 to 50°C
Humidity	90%, Noncondensing
Weight	21 lbs.

Ordering Information

Specify:
Line Voltage
System Specifics



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CS(DS)510 08/00