

Model ASC 302LE (930 MHz to 2150 MHz) Dual Beacon Receiver

Quality Products @ Reasonable Prices



Functional Description

The Model **ASC302LE Beacon Receiver** is a dual beacon receiver that is comprised of two totally independent units in a single rack mount space. The **ASC302LE** 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 **ASC302LE** are for antenna step track controlling and uplink power control system.

Systems Specifications Per Unit

Input Frequency 930 MHz to 2150 MHz
 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
 C/N₀ <45 dB-Hz for capture
 AFC (**Option 1**) ±30kHz
 Image Rejection >40 dB, 930 to 2300MHz
 Input Impedance (**Option 2**) 75 Ohm
 Input Connector (**Option 2**) Type-F, Female
 Output Impedance Dual 100 Ohm, single ended
 Output Connector Terminal plug
 Tracking Gradient 0.5 V/dB
 Tracking Response 0 to +10 VDC
 for a 20 dB input level change
 System Level Range 60 dB
 System Level Adjust 0 to 60dB, 0.5dB Steps
 Frequency Stability <1 ppm, 0^oc to +50^o c
 Frequency Reference 10 MHz (Internal)
 Phase Noise >75 dB-Hz, 1 kHz from Carrier
 Alarms Unit Lock
 Alarm Relay Normally Closed Form-A

External LNB Power +18 VDC, Jumpered, In/Out, 500 ma, max
 +15 VDC (**Optional**)
 Front Panel Display LCD
 M&C RS-232, 9600 baud
 M&C Connector (**Option 3**) DB-9, Female

Physical Characteristics

Size 1.75"H X 16.00"D X 8.50"W
 Weight 8 lb. (3.63 kg)
 Primary Power 100- 240VAC 47 - 63Hz, 1.2 A AutoSensing

Environmental Specifications:

Operating Temperature 0^oc to +50^o c
 Storage Temperature -10^oc to +70^o c
 Humidity 95% RH@ 40^o c

Options

Option 1: Up to ± 100kHz with Proprietary "sweep trac" automatic frequency capture. Customer specified tracking range. Less than 6 sec. Capture time at ± 100kHz tracking.

Option 2: Available Input Connectors

50 Ohm N Female
 50 Ohm SMA Female

Option 3: (Optional) Ethernet 10/100 Mbps Fast Ethernet
 Ethernet connector RJ-45 Jack connector

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