Model ASC 501LE 70MHz to L-Band Up Converter

Quality Products @ Reasonable Prices

Functional Description

The Model **ASC501LE Up Converter** is a high performance unit that is designed to up convert a 70 MHz (52 to 88 MHz) base band input signal to the output frequency band of 950 to 1750 MHz. The output signal then may be interfaced to the final power stage of a satellite RF transmitter (SSPA or BUC). The system performance makes the **ASC501LE** ideal for low data rate applications. The LE Series half-rack width permits mounting ether two of the same units or a combination of our **ASC501LE Up Converter** and our **ASC401LE Down Converter (Model ASC902LE)** side by side in one rack mount unit.

Systems Specifications

Input Frequency ..... 52 to 88 MHz Standard
Input Level ..... -15 to - 35 dBm at 70 MHz
Output Frequency ..... 950 to 1750 MHz
Frequency Tuning ..... 1 MHz Steps
Frequency Adjust ..... Front Panel or Remotely
Input Impedance ..... 50 Ohm
Input Connector..... BNC, Female
Output Impedance..... 50 Ohm
Output Connector..... Type-N, Female
Output Level.....-10 dBm (max.), -35dBm (min.)
Output Level Attn ..... 0 to 25 dB, 1 dB Steps
Signal Phase Noise..... -80 dBc/Hz, 1 kHz From Carrier (Meets IESS308/309)
Alarms..... Unit Lock, BUC Lock **(Options A&B)**
Alarm Relay ..... Form-A
Front Panel Display..... LCD with backlight
M&C ..... RS-232 or RS-422/485 .....Switchable on rear panel
M&C Connector ..... DB-9, Female

Physical Characteristics

Size ..... 1.75"H X 16.00"D X 8.50"W
Weight..... 4 lb. (1.82 kg)
Primary Power.....85 - 264 VAC 50-60Hz, 2.7 A ..... Auto-Sensing

Environmental Specifications:

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

Options:

A. External Freq. Ref. (Multiplexed on Output Center Conductor)
   Frequency .....10 MHz
   Level..... 0 dBm, Typical
   Phase Noise .....10 Hz, -90dBc/Hz
   Stability.....± 0.28 ppm
B. Power (Multiplexed Output Center Conductor)
   Voltage ..... + 24 VDC
   Power .....65 W, max

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