

Model ASC 401LE L-Band to 70MHz Down Converter

Quality Products @ Reasonable Prices



Functional Description

The Model **ASC401LE Down Converter** is a high performance unit that is designed to down convert an input signal in the frequency band of 950 to 1750 MHz to the 70 MHz (52 to 88 MHz) base band output. The output signal then may be interfaced to an external 70 MHz customer supplied receive equipment. The LE Series half-rack width permits mounting either two of the same units or a combination of our **ASC401LE Down Converter** and our **ASC501LE Up Converter (Model ASC902LE)** side by side in one rack mount unit.

Systems Specifications:

Output Frequency..... 52 to 88 MHz
 Spectrum Inverted/Non-Inverted, Switchable
 Output Bandwidth..... 36 MHz
 Input Frequency 950 to 1750 MHz
 Frequency Tuning 125 kHz Steps
 Frequency Adjust Front Panel or Remotely
 Input Level..... - 45 to - 65 dBm
 Input Impedance.....75 Ohm
 Input Connector.....Type-F, Female
 Input Connector **(Option B)** ...50 Ohm Type N Female
 Output Impedance.....50 Ohm
 Output ConnectorBNC, Female
 System Gain.....25 dB (Max.)
 Input & Output Return Loss..... 15 dB
 Spurious - 55 dBc modulated (carrier related)
 - 60 dBm un-modulated (non carrier)
 System Attenuation Adjust 0 to 25 dB, 1dB Steps
 Frequency Stability..... ±0.5 ppm

Phase Noise < - 80 dBc/Hz, 1 kHz from Carrier
 (Meets IESS308/309)
 Alarms Unit Lock
 Alarm Relay Form-A Normally Closed
 External LNB Power **(Option A)** ..+18VDC, Switchable In-
 Out, 300 ma, max. (+24 VDC is also an option)
 Front Panel DisplayLCD with backlight
 M&C RS-232 or RS-422, Switchable
 M&C Connector..... DB-9, Female
Option C: 10 MHz Ref. Input
 Input Level +10 to -10 dBm
 Input connector..... BNC, 50 Ohm Female
 Auto Switched..... Internal/External
 External Stability.....±100 Hz (±10 ppm)

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 A
Auto-Sensing

Environmental Specifications:

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

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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 either 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:

Output Frequency 950 to 1750 MHz
 Spectrum..... Non-inverted
 Output Bandwidth36 MHz
 Output Level..... -15 dBm Max @ -25dBm Input
 Output Mute< - 50 dBc on frequency change
 Input Frequency52 to 88 MHz
 Input Level -15 to - 35 dBm,-25 dBm, Typical
 Frequency Tuning125 kHz Steps
 Frequency Adjust..... Front Panel or Remotely
 Input Impedance 50 Ohm
 Input Connector BNC, Female
 Output Impedance 50 Ohm
 System Level Gain..... 10 dB Max, Typical
 Output Connector..... Type-N, Female
 System Level Attenuation 0 to 25 dB, 1 dB Steps
 Frequency Stability ± 0.5 ppm
 Input & Output Return Loss 15 db
 Spurious Response - 55dBc modulated
 (carrier related)
 65 dBm un-modulated (non carrier)
 Signal Phase Noise ≤ - 80 dBc/Hz, 1 kHz from Carrier
 (Meets IESS308/309)
 Alarms Unit Lock
 Alarm Relay Form-A
 Front Panel Display LCD with backlight
 M&C RS-232 or RS-422
 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^oc to +50^o c
 Storage Temperature -40^o c to +70^o c
 Humidity 95% RH@ 40^o c

Options:

- A. External Freq. Ref. (Multiplexed on Output Center Conductor)**
 Frequency 10 MHz
 Level..... +4 dBm, Typical
 Phase Noise 10 Hz, -90dBc/Hz
 Stability ± 1 X 10⁻⁸ ppm
- B. BUC Power (Multiplexed Output Center Conductor)**
 Voltage + 24 VDC
 Power 65 W, max
- C. 10 MHz Ref. Input**
 Input Level..... +10 to -10 dBm
 Input connector..... BNC, 50 Ohm Female
 Auto Switched Internal/External
 External Stability ±100 Hz (±10 ppm)

The 10 MHz reference is auto switched to internal when no external reference is available or less than -10 dBm.

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