

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 Connector BNC, 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 Display LCD 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^oc to +50^o c
Storage Temperature -40^oc to +70^o c
Humidity 95% RH@ 40^o c

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