



□ P.O. BOX 265
OGDENSBURG, NY
U.S.A. 13669-0265
TEL: (315) 472-5270
FAX: (613) 226-2802

☒ BOX 5120 STN. F
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

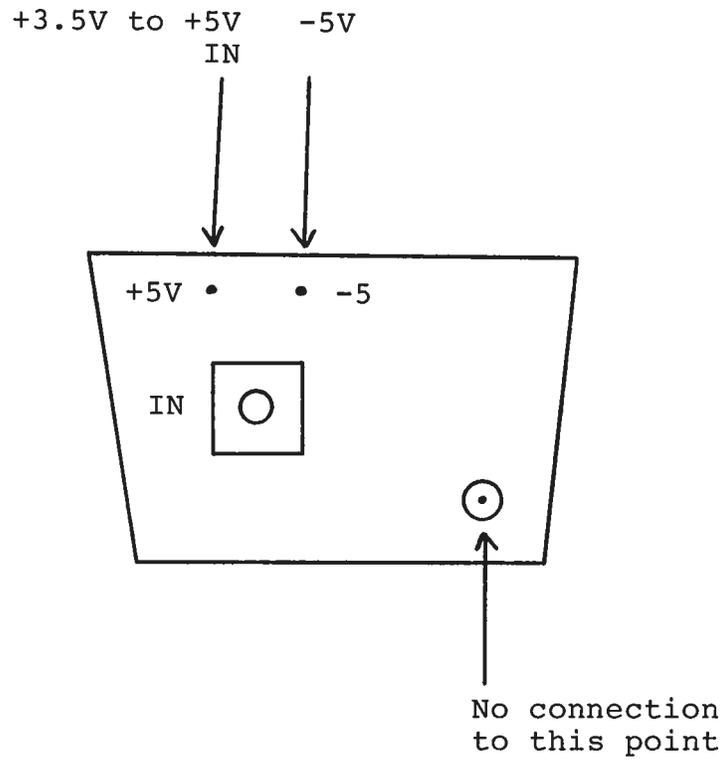
Model AV-141 (S.N. 6036, Mod. Dec. 1992)

Specifications

The Model AV-141 amplifier is designed to amplify bipolar nanosecond rise time baseband pulses in the pulse width range of about 0.5 nsec and higher and CW signals in the frequency range of DC to 2500 MHz. The basic specifications for the unit are as follows:

Gain:	>20 db
Peak output voltage:	+1.0 volt
Rise time:	<0.2 nsec
Impedance level:	50 ohms nominal
Bandwidth:	DC to 2500 MHz
Input VSWR:	<2.0:1
Output VSWR:	<2.0:1
Max. noise figure:	6.0 db
Prime power:	a) +3.5 to +5.0 Volts, 110 mA b) -5.0 Volts, 100 mA
Connectors:	SMA
Size:	1.4 x 1.1 x 2.3 inches

The output DC offset is controlled by the 10 turn pot (OS) on the output end of the module. The DC offset may require several minutes to attain its final steady state value after DC prime power is first applied. Note that the DC offset is sensitive to variations in the -V supply voltage. The module should be bolted to a heat sink to minimize the drift of DC offset with temperature. The +V supply may be varied from +3.5 to +5.0 V but oscillation may result if the potential is near +5.0 Volts. Note that if either +V or -V exceeds 5 Volts, the unit will fail (not covered by warranty).



AV-141, SN 6036 PRIME POWER INPUTS

12.24.92