



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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MODEL AV-141J

Specifications

The Model AV-141J unity gain amplifier is designed to buffer bipolar baseband pulses in the pulse width range of about 20 ns and higher and CW signals in the frequency range of DC to 50 MHz. The basic specifications for the unit are as follows:

Gain:	unity
Bandwidth:	DC to 50 MHz
Peak Output Voltage (to 50 Ohms or higher):	± 10 Volts
Rise Time:	≤ 10 ns
Input Impedance:	1 MΩ
Output Impedance:	3 Ω
Input Noise Level:	6 nV /√Hz
Prime Power:	±15 V, 200 mA (max)
Connectors:	SMA
Size:	1.4 x 1.1 x 2.3 inches

- 1) The side panel OS pot serves to adjust the output DC offset level. At time of shipping, the pot was adjusted for 0 Volts offset.
- 2) The supply current should not exceed 200 mA. Reduce the input waveform duty cycle if the supply current exceeds 200 mA.
- 3) **CAUTION:** The input to this amplifier does not include any overload protection and so it may be damaged if subjected to high amplitude spurious outputs such as those provided by some PMT. The warranty does not apply to such failures.