



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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Model AV-143CP

Specifications

The Model AV-143CP amplifier is designed to amplify positive baseband pulses in the pulse width range of about 200 ns and higher. The basic specifications for the unit are as follows:

Gain:	x 7.5 (voltage, non-inverting)
Bandwidth:	DC to 10 MHz
Peak output voltage (to 50 Ohms or higher):	+30 Volts
Rise time:	≤ 50 ns
Input impedance:	1 K
Output Impedance:	$\cong 2$ Ohms
Max output power:	8 Watts
Prime power:	+36 \pm 1 Volts, 700 mA maximum -15 \pm 1 Volts, 130 mA maximum
Connectors:	BNC
Size:	1.7 x 2.6 x 4.3 inches

- 1) The unit should be bolted to a heat sink capable of dissipating about 20 watts.
- 2) The DC offset on the output may be set to zero by making minor adjustments to the OS trim pot on the top cover of the chassis.
- 3) **CAUTION:** The unit may be damaged if the DC voltage power supply voltages exceed the specified values or if the power supply voltages are reversed.
- 4) **CAUTION:** The unit may be damaged (due to overheating) if the negative supply voltage is applied (for time intervals exceeding tens of seconds) while the positive supply is not applied.
- 5) **CAUTION:** The unit may be damaged if operated into a load impedance of less than 50 Ohms. The unit will safely operate into load impedance greater than 50 Ohms (including open circuits).
- 6) **CAUTION:** The pulse input voltage is clamped at +5.0 volts and -0.7 volts
- 7) For additional assistance:

1-800-265-6681 : telephone

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