



# 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<br>(to 50 Ohms or higher): | +30 Volts  |
| Rise time:                                     | ≤ 50 ns  |
| Input impedance:                               | 1 K  |
| Output Impedance:                              | ≅ 2 Ohms   |
| Max output power:                              | 8 Watts  |
| Prime power:                                   | +36 ± 1 Volts, 700 mA maximum<br>-15 ± 1 Volts, 130 mA maximum |
| Connectors:                                    | BNC  |
| Size:  | 1.7 x 2.6 x 4.3 inches   |



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- 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:** Do not apply voltages less than 0 Volts or greater than +6V to the input.
- 7) For additional assistance:

1-800-265-6681 : telephone  
1-800-561-1970 : fax

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