Model AV-143CP-LM1

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:	$\leq$ 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. The zener diodes connected to the power entry points provide some protection against such power supply mishaps.

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:

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   1-800-561-1970 : fax

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