



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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MODEL AV-144B1

SPECIFICATIONS

The Model AV-144B1 non-linear, DC-coupled amplifier is designed to boost TTL input pulses to an amplitude of +20V (into a 50Ω load). The amplifier is non-inverting. The basic specifications for the unit are as follows:

Input:	TTL
Input impedance:	> 1 kΩ
Output voltage:	Input low: 0V out Input high: +20V out
Output impedance:	10 Ohms
Required load impedance:	50 Ohms
Rise, fall time:	≤ 2 ns
Minimum pulse width:	7 ns
Maximum pulse width:	DC
Connectors:	SMA
Size:	1.7 x 2.6 x 4.3 inches
Prime power:	+28V ± 1V, 600 mA (max)

CAUTION: Applying a prime power voltage outside this range (28 ± 1 Volt) may damage the instrument.

This instrument is designed to be used with 50 Ohm loads only.

At duty cycle higher than 25% or frequencies higher than 10 MHz, the unit should be bolted to a heat sink to ensure that it does not overheat.