



**AVTECH ELECTROSYSTEMS LTD.**

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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INSTRUCTIONS

MODEL AV-144B1 AMPLIFIER

S.N. :

### WARRANTY

Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech shall at its option repair or replace said defective item. This warranty does not apply to units which have been disassembled, modified or subjected to conditions exceeding the applicable specifications or ratings. This warranty is the extent of the obligation or liability assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.



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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.

July 25/96

Disk: AV-

Name: 144B1.INS