



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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OGDENSBURG, NY
U.S.A. 13669-0265
TEL: (315) 472-5270
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BOX 5120 STN. F
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CANADA K2C 3H4
TEL: (613) 226-5772
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INSTRUCTIONS

MODEL AV-144A1-UM2-PS-LV 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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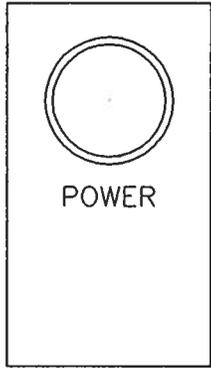
Model AV-144A1-UM2-PS-LV

Specifications

The Model AV-144A1 non-linear, DC-coupled amplifier is designed to boost +1.0 to +5 Volt input pulses to an amplitude of +6V (into a 50Ω load). The amplifier is non-inverting. The basic specifications for the unit are as follows:

Input:	+1 to +5V
Input impedance:	> 1 kΩ
Output voltage:	Input low: 0V out Input high: +6V out
Output impedance:	10 Ohms
Required load impedance:	50 Ohms
Rise, fall time:	≤ 2 ns (typically 1.5 ns)
Minimum pulse width:	10 ns
Maximum pulse width:	DC
PRF:	0 to 25 MHz
Connectors:	SMA
DC output:	Includes a BNC output connector which provides 0 to +5 VDC (500 mA max). Controlled by a front panel one turn control.
Size:	4" x 8" x 12"
Prime power:	120/240V, 50-60 Hz

AVTECH 



POWER

AV-144A1-UM2
-PS-LV

6 VOLT
2 ns RISE TIME
PULSE AMPLIFIER

IN

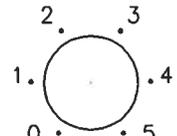


+1 TO +5
VOLTS
TO 1k

OUT

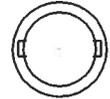


+6 VOLTS
50 OHMS
2 ns RISE TIME



AMPLITUDE
VOLTS DC

DC OUT



0 TO +5VDC
500 mA MAX

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Fax Ref No: 816 From: Avtech Electrosystems Ltd.

To: University of Michigan Our Fax No: (613) 226-2802

Date: Sept. 6, 1996

Attn: Ozdal Boyraz Receivers Fax No: 313-747-2718
Tel: 313-763-0208

Subject: Quotation No. of pages: 2

Following our telephone conversation of September 5th, I am pleased to offer the following revised quotation:

Model designation: AV-144A1-UM2-PS.

Output amplitude: +6.0 Volts to 50 Ohms (fixed).

Input pulse: +3 to +5 Volts (to 1K).

Rise, fall time: ≤ 2.0 ns (typically 1.5 ns).

Pulse width: 10 ns to DC.

PRF: 0 to 25 MHz.

Max duty cycle: 100%.

DC output: Includes a BNC output connector which provides 0 to +5 VDC (500 mA max). Controlled by a front panel one turn control.

Prime power: 120/240V, 50-60 Hz.

Chassis size: 4" x 8" x 12".

Connectors: Pulse: SMA.
DC: BNC.

Price: \$1,598.00 US each, FOB destination.

Note that this price includes our standard 5% academic discount.

Delivery: 60 days ARO.

Option available: -LV option. Accepts input trigger pulses in the range of +1.0 to +5.0 Volts (rather than the standard +3.0 to +5.0 Volts). To specify this option, add the suffix -LV to the model number and add \$298.00 US to the price.

Thank you for your continuing interest in our products. Please call me again (1-800-265-6681) if you require any additional information.

Regards



Dr. Walter Chudobiak
Chief Engineer

WC:pr

Nov. 8/96

Disk: AV-

Name: 144A1UM2.INS