

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS

P.O. BOX 265
 OGDENSBURG, NY
 U.S.A. 13669-0265
 TEL: (315) 472-5270
 FAX: (613) 226-2802

BOX 5120 STN. F OTTAWA, ONTARIO CANADA K2C 3H4 TEL: (613) 226-5772 FAX: (613) 226-2802

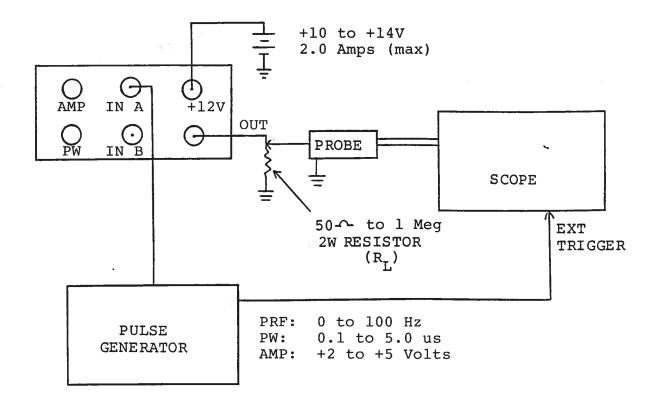
INSTRUCTIONS

MODEL AV-HVX-LA1 PULSE GENERATOR

S.N.:

WARRANTY

Electrosystems Ltd. warrants products of manufacture to be free from defects in material 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 dissembled, 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.



GENERAL OPERATING INSTRUCTIONS

- 1) The equipment should be connected in the general fashion shown above. Since the HVX unit provides an output pulse rise time as low as 20 ns a fast oscilloscope (at least 50 MHz) should be used to display the waveform. Also, if a load of other than 50 Ohm is employed, the length of coaxial cable between the HVX unit and the load should not exceed about 5 feet or the output waveform may be degraded by the resulting reflections.
- The magnitude of the output pulse is controlled by the front panel one turn pot (AMP). Maximum clockwise rotation of the pot provides the maximum output (+600 Volts).
- 3) When the TTL input trigger is applied to IN A, the output pulse width is controlled by the front panel one turn pot (PW). (100 ns to 600 ns).
- 4) When the TTL input trigger is applied to IN B, the output pulse width equals the input trigger pulse width.
- 5) Under simultaneous conditions of wide pulse width, high PRF and high load current, the bias voltage applied to the output power stage decreases and as a result the attainable output peak voltage decreases to less than 600 volts, and in severe cases, the output stage of the unit may be damaged. THEREFORE, DO NOT EXCEED THAT RATED MAX PRF OF 100 Hz OR THE MAX PW OF 600 ns. Also, the max supply current should never exceed 2.0 Amperes.
- 6) It is recommended that the module be secured to a heat sink.
- 7) For additional assistance:

Tel: 1-800-265-6681 Fax: 613-226-2802

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To:

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Fax Ref No: 5834 From: Avtech Electrosystems Ltd.

Los Alamos National Lab, Our Fax No: 613-226-2802

Mail Stop P947, Group J-8,

Los Alamos, NM Date: January 8, 1993

Attn: Larry Earley Receivers Fax No:

Larry Earley Fax No: 505-665-2650
Tel: 505-667-5255

Subject: Your fax dtd. Jan. 7/93 No. pages Faxed: 2

I am pleased to provide a price and delivery quotation for a special purpose pulse generator meeting the following specifications:

Model designation: AV-HVX-LA1.

Output amplitude: 0 to +600 Volts to $R_{\rm L} \geqslant 50$ Ohms (to be

used as a spark gap driver). Amplitude controlled by a one turn locking pot.

controlled by a one turn locking pot.

Output pulse width: 100 ns to 600 ns. Controlled by a one

turn locking pot (when TTL trigger applied

at IN A) or controlled by input pulse

width when triggered at IN B.

Rise, fall time: ≤30 ns.

Propagation delay time: IN A mode: ≤135 ns.

IN B mode: ≤ 110 ns.

PRF: 0 to 100 Hz. Output PRF equals input PRF.

Output impedance: \(\leq 2 \) Ohms.

Prime power: +10 to +14 VDC, 2.5 Amp.

Chassis size: 1.7" x 4.22" x 8.32".

Chassis material:

Cast aluminum, blue enamel.

Connectors:

IN A: Note that if BNC SMA preferred, IN B: BNC BNC . OUT: add -SMA to

DC IN: BNC model number

Price:

Quantity of 1: \$2,295.00 US each,

FOB destination.

Quantity of 12:

\$1,795.00 US each,

FOB destination.

Delivery:

Quantity of 1:

10 days.

Quantity of 12: 45-60 days.

Thank you for your interest in our products. Please call me again if you require any additional information or modifications to the above quotation.

Rgds

Dr. Walter Chudobiak

Chief Engineer

WC:pr

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