



**AVTECH ELECTROSYSTEMS LTD.**

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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

TEL: 1-800-265-6681  
FAX: 1-800-561-1970  
U.S.A. & CANADA

e-mail: [info@avtechpulse.com](mailto:info@avtechpulse.com)

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

**INSTRUCTIONS**

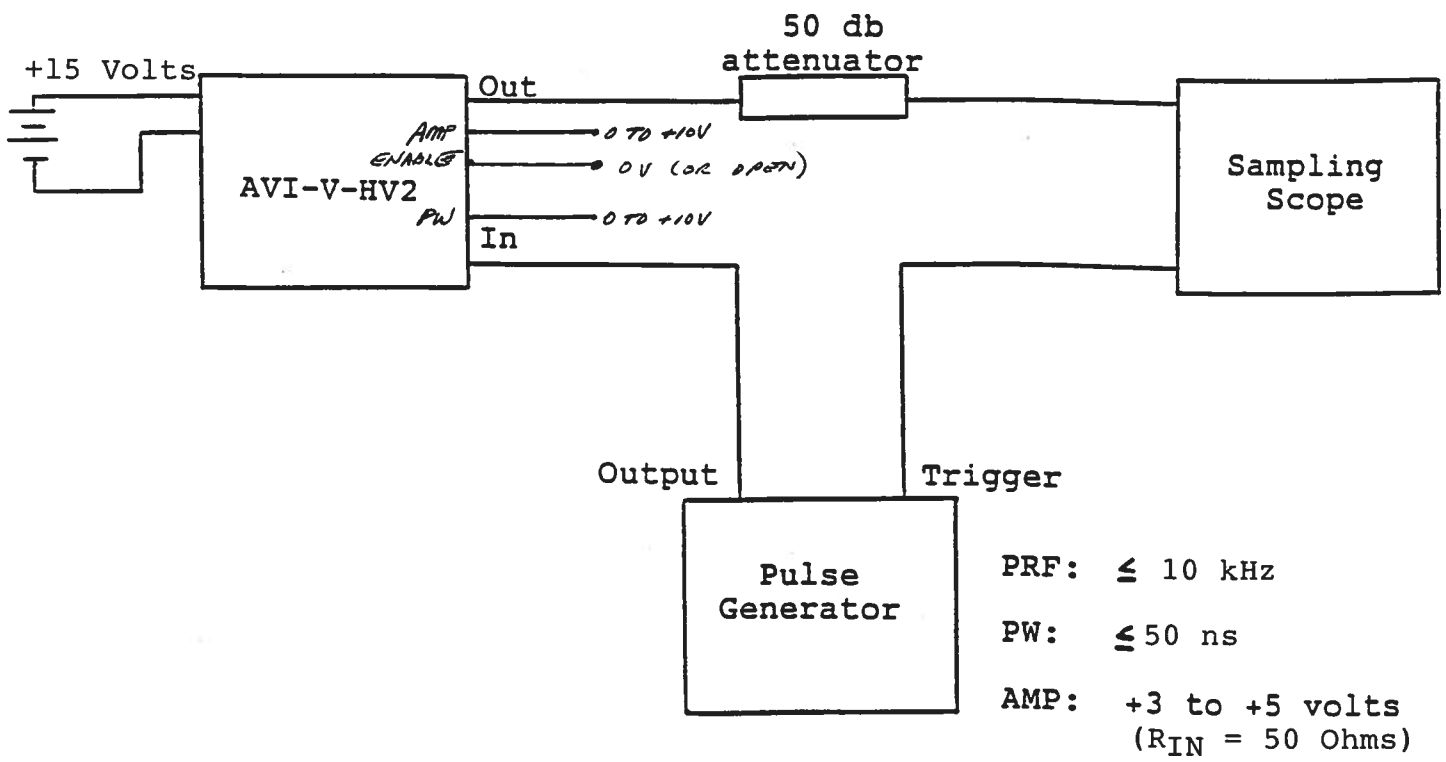
**MODEL AVI-V-HV2-PE1A-P PULSE GENERATOR**

**S.N. :**

### WARRANTY

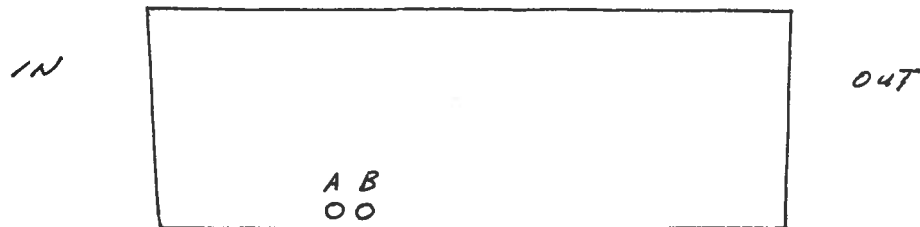
Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech 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.

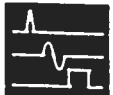
MODEL AVI-V-HV2 PULSE GENERATOR TEST ARRANGEMENT



Notes:

- 1) The bandwidth capability of components and instruments used to display the pulse generator output signal (attenuators, cables, connectors, etc.) should exceed one gigahertz.
- 2) The use of a 50 dB attenuator will insure a peak input signal to the sampling scope of less than one Volt.
- 3) In general, the source pulse generator trigger delay control should be set in the 0.1 to 1.0 us range. Other settings should be as shown in the above diagram.
- 4) The Model AVI-V-HV2 pulse generator can withstand an infinite VSWR on the output port.
- 5) WARNING: Model AVI-V-HV2 may fail if triggered at a PRF greater than 10 kHz.
- 6) Triggering of the unit is inhibited if the ENABLE input is HIGH (+3 to +5 Volts). The unit will trigger if ENABLE input is LOW (0 to +2 Volts) or open circuited.
- 7) The output pulse width is controlled by applying 0 to +10 VDC to the PW solder terminal ( $R_{IN} \geq 10K$ ).
- 8) The output amplitude is controlled by applying 0 to +10 VDC to the AMP solder terminal ( $R_{IN} \geq 10K$ ).
- 9) The minimum pulse width may be adjusted using the 10 turn trimpot A (see below) while the maximum pulse may be adjusted using trimpot B. Clockwise rotation of the pots reduces the pulse width.



**AVTECH****AVTECH ELECTROSYSTEMS LTD.**NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975□ P. O. BOX 265  
OGDENSBURG, NY  
U.S.A. 13669-0265  
TEL: (315) 472-5270  
FAX: (613) 226-2802TEL: 1-800-265-6681  
FAX: 1-800-561-1970  
U.S.A. & CANADA☒ BOX 5120 STN. F  
OTTAWA, ONTARIO  
CANADA K2C 3H4  
TEL: (613) 226-5772  
FAX: (613) 226-2802

Fax Ref No: 10186 From: Avtech Electrosystems Ltd.

To: Physical Electronics Our Fax No: (613) 226-2802

Date: September 22, 1994

Attn: Brian Brady Receivers Fax No: 612-828-6235  
Tel: 612-828-5986

Subject: Quotation No. of pages: 2

- 1) Following our phone conversation of Sept. 22, I am pleased to provide the following revised price and delivery quotation:

Model designation: AVI-V-HV2-PE1A

Output amplitude: 0 to +100 Volts to 50 Ohms.  
Amplitude controlled by 0 to +10 VDC control voltage. Particular attention given to linearity and matching for amplitude range of +30 to +100 Volts.

Output pulse width: 8 ns to 50 ns. Controlled by 0 to +10 VDC control voltage ( $\pm 1$  ns linearity). Control is active over full 10 Volt range (ie no dead zone).

Rise time:  $\leq 2$  ns

Full time:  $\leq 2$  ns

PRF: 0 to 10 kHz

Input trigger: +5V, PW  $\geq 50$  ns, 50 Ohm input impedance.

Enable input: TTL High input will block operation of the pulser.

Prime power: +15 VDC, 250 mA (MAX)

Chassis size: 1.7" x 3.0" x 6.0"

Connectors: Out: SMA  
Other: Solder terminals

Price:

Delivery: 3 weeks.

Rgds



Dr. Walter Chudobiak  
Chief Engineer

WC:dh

Dec. 6/94

edition B

Disk: RVI-HV

Name: HV2PE1AB.INS