



**AVTECH ELECTROSYSTEMS LTD.**

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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**INSTRUCTIONS**

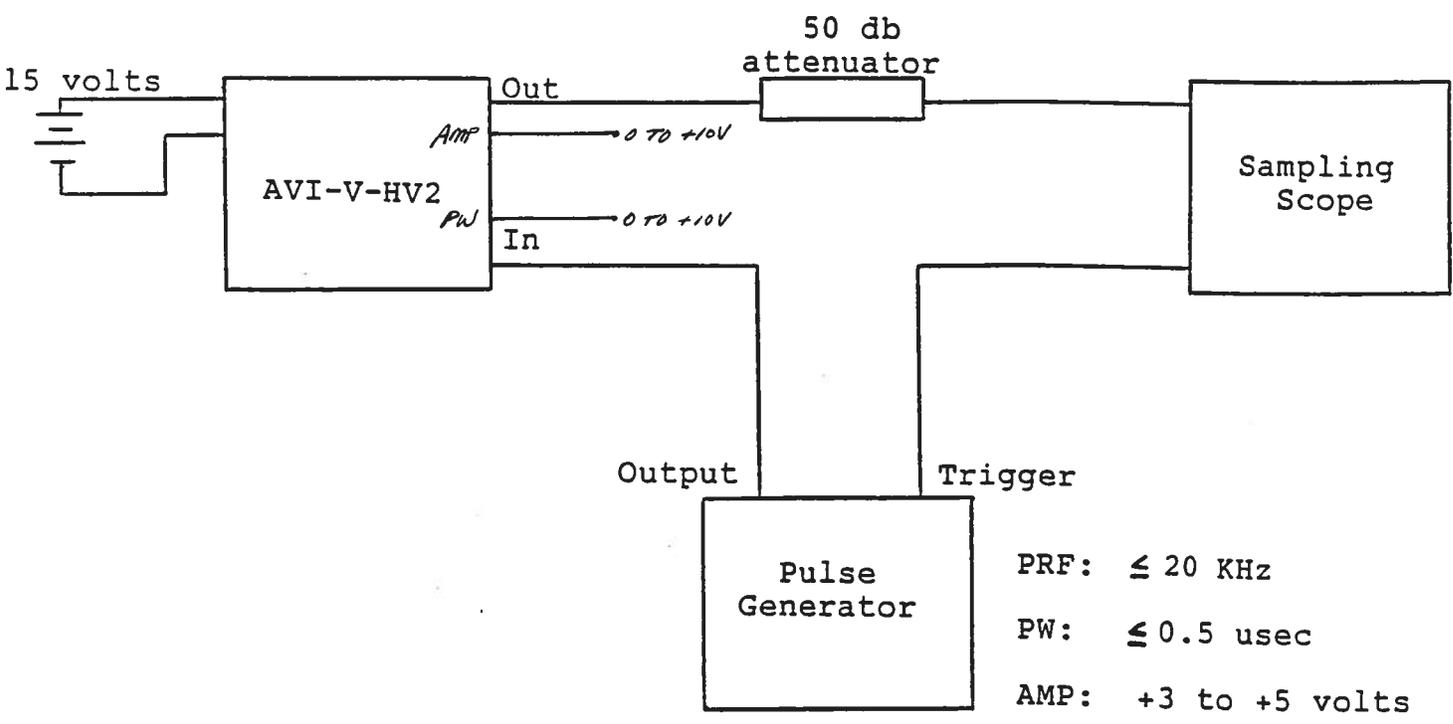
**MODEL AVI-V-HV2-EA-EW-CEA PULSE GENERATOR**

**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 10 GHz.
- 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 20 kHz.
- 6) The output pulse width is controlled by applying 0 to +10 VDC to the PW solder terminal ( $R_{IN} > 10K$ ).
- 7) The output amplitude is controlled by applying 0 to +10 VDC to the AMP solder terminal ( $R_{IN} > 10K$ ).
- 8) The unit requires a warm up period of about 10 minutes before the output pulse width stabilizes.
- 9) Minor adjustments to the output pulse width may be made using a ten turn trim pot which is accessible on the lower right-hand corner of one of the side panels. At the time of shipping this pot was adjusted to provide a pulse width of 3 ns (FWHM) for 0 V in. Clockwise rotation of the trim pot increases the pulse width.

May 1/95

Edition D

Disk: AVI-HV

Name: EREWCEAD.INS