INSTRUCTIONS

MODEL AVP-AV-HV2-M-EW 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 dissembled, modified or subjected to conditions exceeding the applicable specifications or ratings. This warranty is the extent of the obligation assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

TECHNICAL SUPPORT

Phone: 613-226-5772 or 1-800-265-6681
Fax: 613-226-2802 or 1-800-561-1970

E-mail: info@avtechpulse.com
World Wide Web: http://www.avtechpulse.com

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Manual Reference: Q:\office\instructword\Avp\AVP-AV-HV2-M-EW.doc, created January 19, 2000

FIG. 1: AVP-AV-HV2 PULSE GENERATOR TEST ARRANGEMENT

15 Volts

+

−

AVP-AV-HV2

Out

In

40 dB
attenuation

Sampling
Scope

Output

Trigger

Pulse
Generator

PRF: ≤ 1.0 MHz

PW: ≥ 50 ns

AMP: +3 to +5 Volts
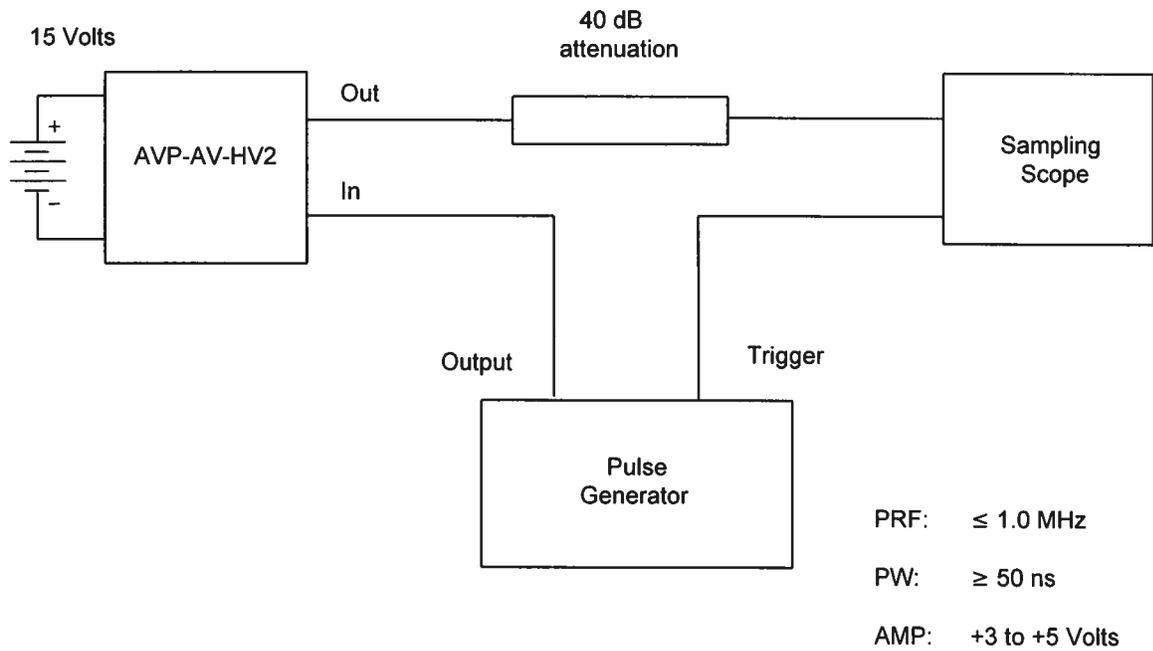
GENERAL OPERATING INSTRUCTIONS

1)   The bandwidth capability of components and instruments used to display the pulse generator output signal (attenuators, cables, connectors, etc.) should exceed ten gigahertz.

2)   The use of 40 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 AVP-AV pulse generator can withstand an infinite VSWR on the output port.

5)   WARNING: Model AVP-AV may fail if triggered at a PRF greater than 1.0 MHz.

6)   To voltage control the output pulse width, apply 0 to +10V to the "PW" solder terminal. ($R_{IN} \geq 10K$). (EW option).

7)   The output amplitude is controlled by the one-turn "Amp" pot. Note that decreasing the amplitude causes the pulse width to increase.

8)   Some properties of the output pulse may change as a function of the amplitude pot setting. For some demanding applications, it may be desirable to use a combination of external attenuators and the amplitude pot to achieve the desired output amplitude.

9)   To DC offset the output pulse connect a DC power supply set to required DC offset value to the terminals marked O.S. The maximum attainable DC offset voltage is +50 volts. (option).

10)   The monitor output port (M) provides a coincident attenuated (x10) replica of the main output to a 50 ohm load. (option).

11)   For additional assistance:

Tel: (613) 226-5772
Fax: (613) 226-2802
Email: info@avtechpulse.com