AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS
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INSTRUCTIONS

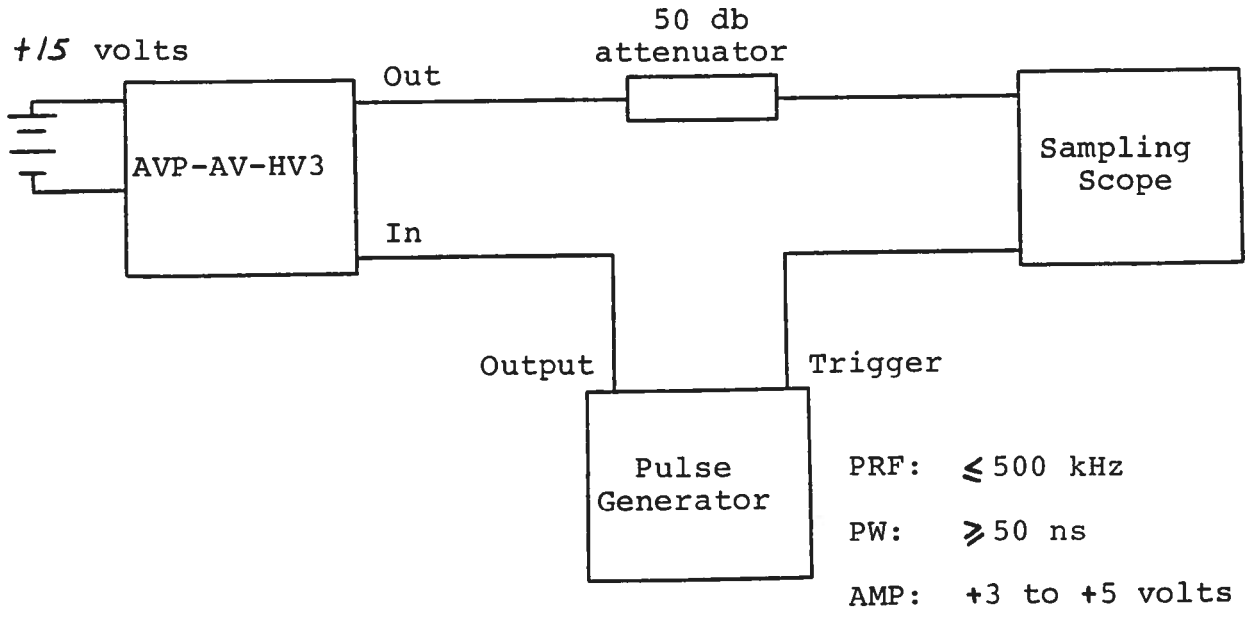
MODEL AVP-AV-HV3-SSA PULSE GENERATOR

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 or liability assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

MODEL AVP-AV-HV3 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 ten gigahertz.

2) The use of 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 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 500 kHz.

6) The output pulse width is controlled by means of the one turn potentiometer (PW). The pot should initially be set maximum clockwise and the pulse width adjusted using an oscilloscope.

7) The output pulse amplitude is controlled by means of the one turn potentiometer (AMP). The pulse width may change by several nanoseconds as the output amplitude is reduced from maximum to minimum. Therefore it is convenient to first set the desired amplitude and then set the desired pulse width. Rotation of the PW pot causes the position of the falling edge of the pulse to change.

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) For additional assistance:

Tel: (613) 226-5772
Fax: (613) 226-2802

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August 12, 1996.

Robert Day
Second Sound
220 Gates Street
San Francisco, CA 94110

Tel: 415-647-0625
Fax: 415-641-5502

Dear Robert:

Following our telephone conversation of August 9th, I am pleased to enclose the following literature:

1) General Catalog No. 9
2) Price List

Model AVP-AV-HV3 is described on pages 14 and 15. This model can be modified to meet the following specifications:

Model designation:	AVP-AV-HV3-P-SSA.
Pulse width:	0.6 to 4.0 ns.
Rise time:	$\leq$ 150 ps.
Fall time:	$\leq$ 400 ps.
PRF:	0 to 500 kHz.
Other:	See standard AVP-AV-HV3, pages 14 and 15, Cat. No. 9.
Price:	$2,198.00 US each, FOB destination.
Delivery:	60 days ARO.

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

Yours truly,

Dr. Walter Chudobiak
Chief Engineer

WC:pr
Encl.

Oct. 21/96

Disk: AVP-AV-HV

Name: HV3SSA.INS