AVTECH

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 AVG-3A-COB1 IMPULSE GENERATOR

S.N.:

WARRANTY

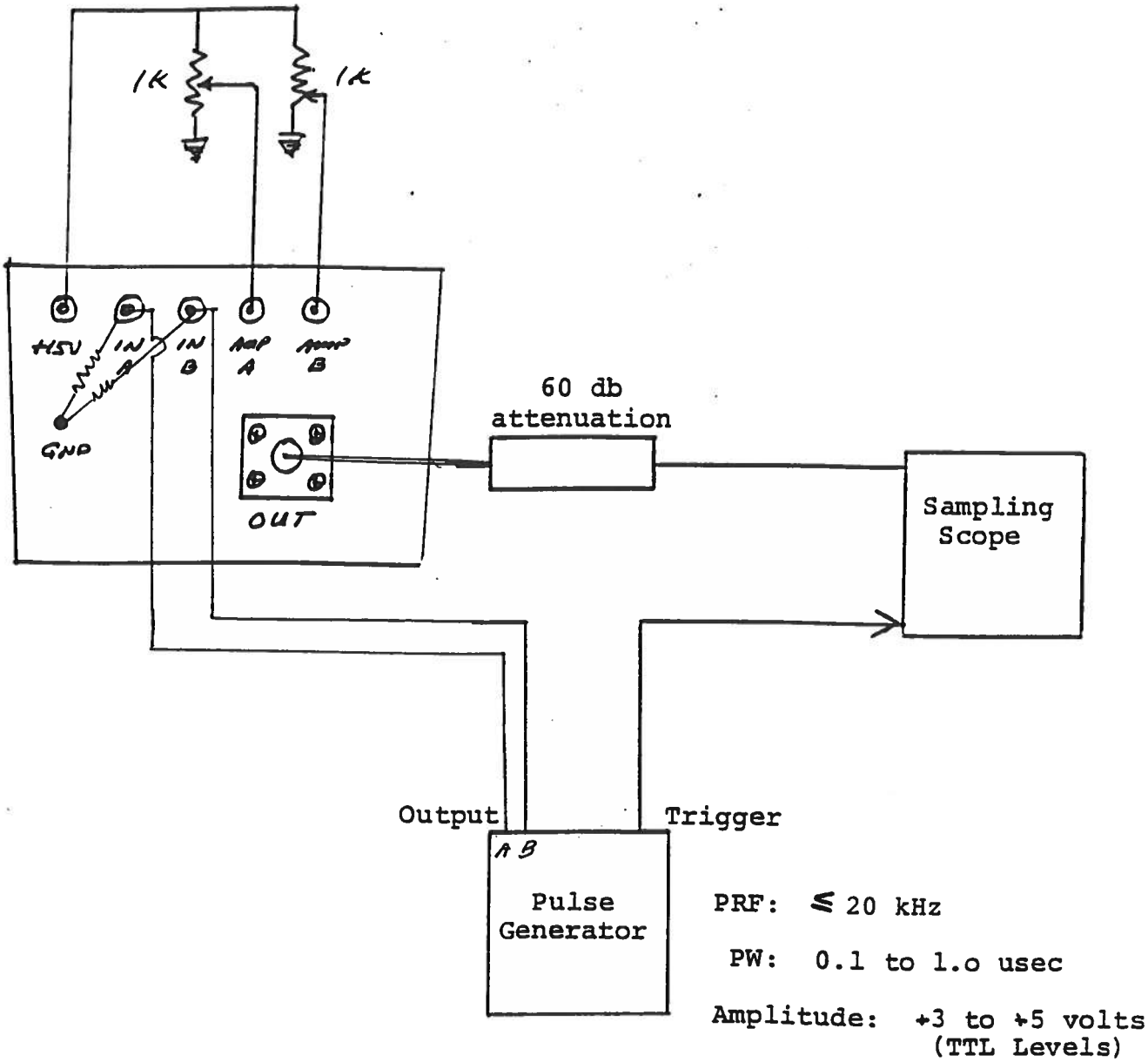
Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech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

Fig. 1 GENERATOR TEST ARRANGEMENT



Notes:

1) The AVG-3A-COB1 contains two 450 Volt 8 ns impulse generators (A and B) and their outputs are combined via a self-contained power combiner and are available at the OUT SMA connector. The output amplitudes for the two impulses are controlled by the two user-supplied 1K pots (A and B). The time separation between the two impulses is controlled by the time separation of the TTL trigger pulses applied to IN A and IN B and may be as low as 10 ns. The IN A and IN B terminals should be shunted by 680 Ohms (to ground) to reduce the possibility of false trigger of the two channels.

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

3) The use of 60 db attenuator will insure a peak input signal to the sampling scope of less than one volt.

4) In general, the pulse generator trigger delay control should be set in the 100 nsec. range. Other settings should be as shown in the above diagram. The impulse generator output is delayed with respect to the trigger input signal by about 70 nsec. (typically).

5) The impulse generator can withstand an infinite VSWR on the output port.

6) CAUTION: The unit may fail if the PRF exceeds 20 kHz.

10.20.92