

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
ENGINEERING - MANUFACTURING

□ P.O. BOX 265
OGDENSBURG
NEW YORK
13669
(315) 472-5270

✕ BOX 5120 STN. "F"
OTTAWA, ONTARIO
CANADA K2C 3H4
(613) 226-5772
TELEX 053-4591

INSTRUCTIONS

Model AVO-ESB4-2 Pulse Generator

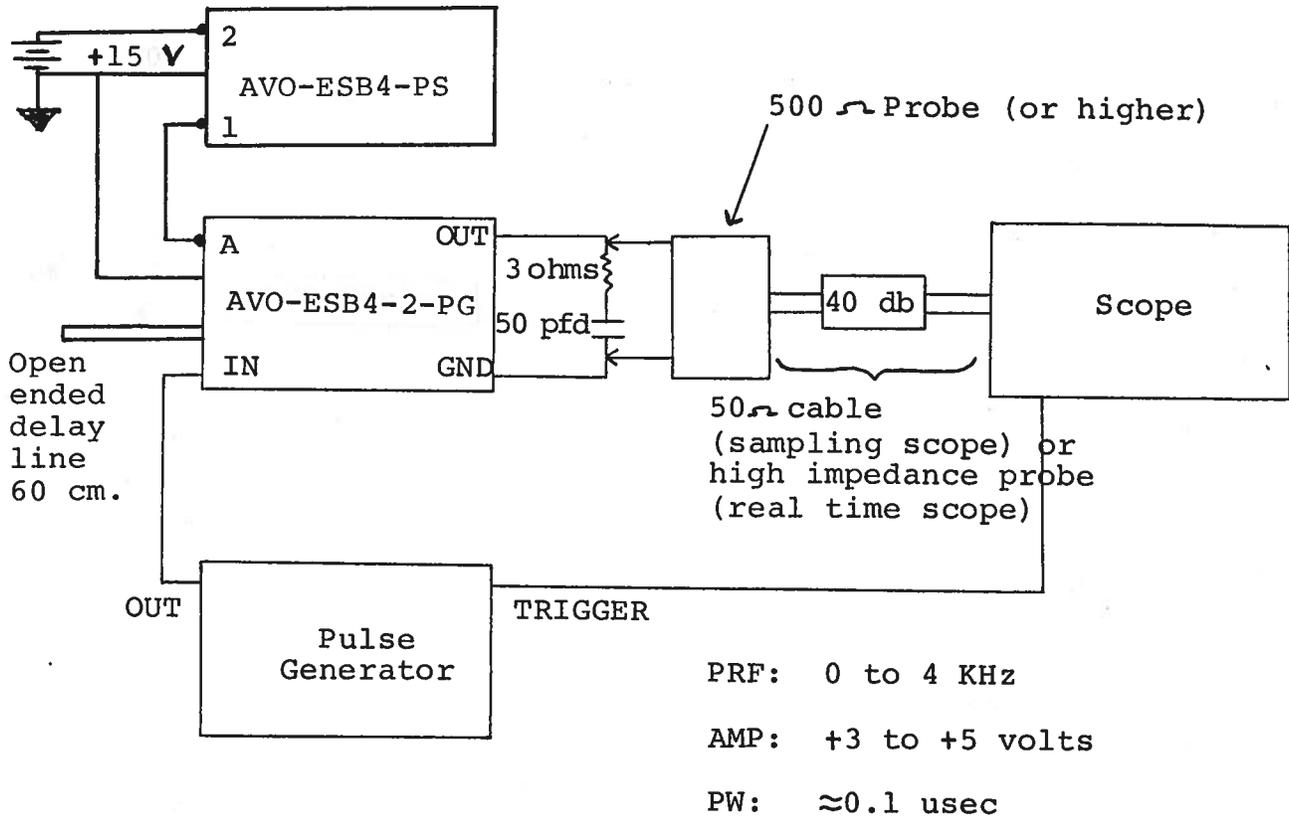
S.N.:

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.

Fig. 1

AVO-ESB4-2 TEST ARRANGEMENT



- 1) Connect the PS and PG modules together as shown. The load from Pin 1 (AVO-ESB4-PS) to Pin A (AVO-ESB4-2-PG) and the associated ground lead may be of any length but may require some shielding if interference to outside equipment is observed.
- 2) The load is connected between the OUT and GND terminals using leads as short as possible (≤ 2 mm). The load current (or voltage) may be varied by the addition of shunt or series resistive elements at the OUT terminal.
- 3) In general the pulse generator trigger delay control should be set in 0.1 to 1.0 usec range. Other settings should be as shown in the above diagram. The propagation delay time for the AVO-ESB4-2 unit is less than 20 nsec.

- 4) Either a sampling oscilloscope or a high speed real time oscilloscope ($BW > 500$ MHz) may be used to monitor the load voltage. If a sampling scope is used at least 60 db attenuation should be used to insure a scope input voltage of less than 1.0 volt.
- 5) WARNING: The unit may fail if triggered at a PRF exceeding 4 KHz. Use moderate heat when soldering to the OUT terminal.
- 6) WARNING: The line connecting Pin 1 (AVO-ESB4-PS) to Pin A (AVO-ESB4-2-PG) is at a potential of about +350 volts.
- 7) The 60 cm. miniature coaxial delay line does not require any connection.