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ENGINEERING - MANUFACTURING

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INSTRUCTIONS

MODEL AVO-5A-P-M3 PULSE GENERATOR

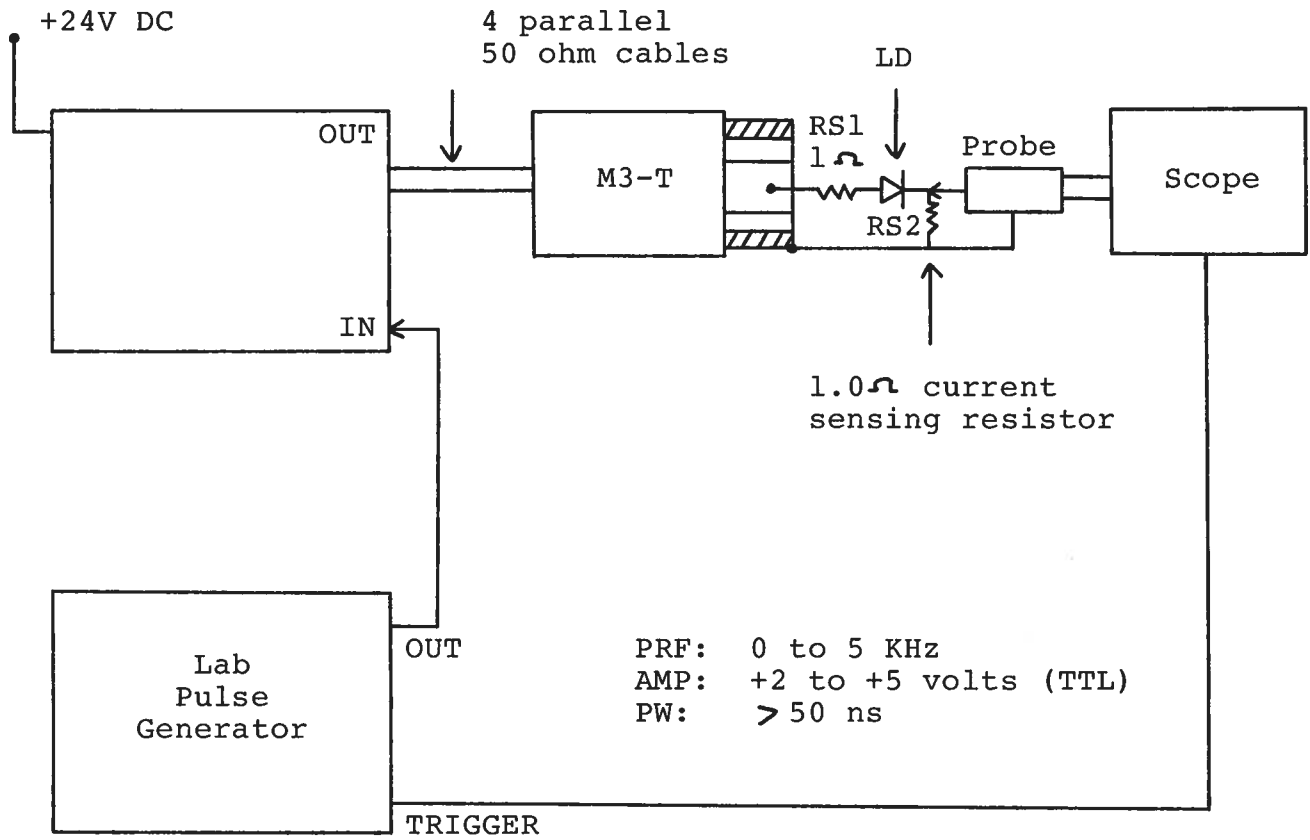
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WARRANTY

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-5A-P-M3 TEST ARRANGEMENT



Notes:

- 1) The laser diode is connected in series with a current limiting ($RS1 = 1.0$ ohm) and current sensing resistor ($RS2 = 1.0$ ohm) between the GND and OUT terminals on the front panel. The resistance of the 3 elements should total 3 ohms. Solder leads directly to the GND and OUT terminals.
- 2) Either a sampling oscilloscope or a high speed real time oscilloscope ($BW > 500$ MHz) may be used to monitor the voltage across the current sensing resistor and therefore the laser diode current. If a sampling scope is used at least 50 db attenuation should be used to insure a scope input voltage of less than 1.0 volt.
- 3) The amplitude of the diode current is determined by the setting of the AMP pot control, the series resistors and by the series resistance of the laser diode.
- 4) The output pulse width is controlled by the one-turn PW control.
- 5) WARNING: The unit may fail if triggered at a PRF exceeding 10 KHz. Use moderate heat when soldering to the OUT terminal.
- 6) The output switching elements SL4 may be replaced by removing the metal cover on the bottom of the instrument. CAUTION: The cases of the SL4 elements are at a DC potential as high as 200 volts.

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