

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS SINCE 1975

P.O. BOX 265 OGDENSBURG, NY U.S.A. 13669-0265 TEL: (315) 472-5270 FAX: (613) 226-2802 TEL: 1-800-265-6681 FAX: 1-800-561-1970

e-mail: info@avtechpulse.com http://www.avtechpulse.com P.O. BOX 5120 STN. F OTTAWA, ONTARIO CANADA K2C 3H4 TEL: (613) 226-5772 FAX: (613) 226-2802

INSTRUCTIONS

MODEL AVX-S3A-M1-LA1A BIAS INSERTION UNIT

S.N.:

GENERAL OPERATING INSTRUCTIONS

- 1) Gently insert the anode lead of the OP-3 package into the 10-32 threaded opening of the AVX-S3A unit and contact the pin socket which is located about 1 centimeter into the 10-32 opening. Push the anode lead into the socket until the 10-32 threads on the package contact the body of the AVX-S3A unit. Then screw the package into the threads using finger force only. Note that the above operation is much easier if the anode lead is very straight.
- 2) The DC terminal of the bias insertion must be shorted to ground (if a DC offset is not required) or a DC power supply must be applied. The laser diode may not function if the DC terminal is open circuited. Note that the DC current must not exceed ± 100mA.
- 3) The MI port must be terminated into 50 Ohms.
- 4) The diode current I_D (Amps) and the MI output voltage (V_{MI}, Volts) are related as follows:

$$I_D = V_{MI}$$

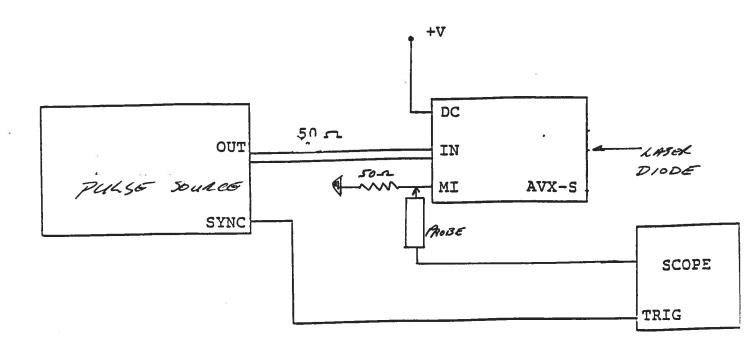


Fig. 2 FUNCTIONAL EQUIVALENT CIRCUIT

