

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 AV-149-BW3-5K-PIN-SP2 TRANSIMPEDANCE AMPLIFIER

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

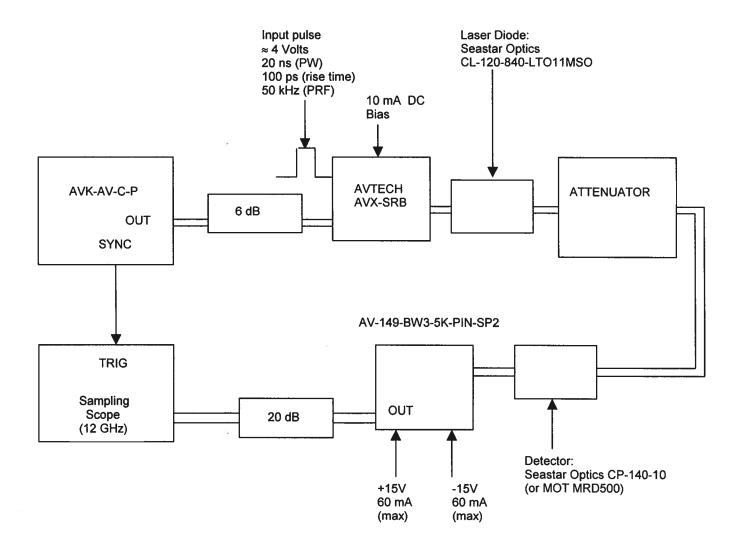
E-mail: info@avtechpulse.com
World Wide Web: http://www.avtechpulse.com

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Manual Reference: Q:\office\instructword\Av-149\Av-149-BW3-5K-PIN-SP2-eda-fig.doc, created December 21, 2000

FIG. 1: BASIC TEST SET-UP (PULSE MODE)



GENERAL OPERATING INSTRUCTIONS

- 1) The basic operation of the amplifier was confirmed using the pulse mode test arrangement shown in Fig. 1.
- 2) The AV-149 amplifier requires a prime power of ±15 VDC (60 mA max).
- 3) The PIN diode bias may be varied from +1 to +14 Volts using the ten turn "BIAS" trim pot. The unit is shipped with the bias set at +14 Volts.
- 4) Any spurious DC offset on the AV-149 output may be zeroed using the ten-turn "OS" trim pot.
- 5) To test the AV-149 in a sweep frequency mode (DC to 600 MHz) the AVK-AV-C and the sampling scope should be replaced by a network analyzer.
- CAUTION: The amplifier will be damaged if the anode and cathode connections 6) are reversed.
- 7) The leads of the photo diode should not be inserted more than 1.0 cm into the socket.
- 8) The ±15 VDC supply should be turned off when installing or removing the photo diode.
- 9) For additional information:

Tel:

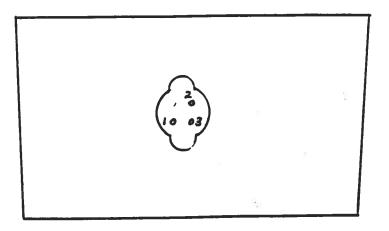
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Fax:

(613) 226-2802

Email: info@avtechpulse.com

FIG. 2: DIODE SOCKET PIN CONNECTIONS



- Anode
 Case
 Cathode