

INSTRUCTIONS

MODEL AV-149-BW1-5K-PIN-SP1 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 disassembled, 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

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Manual Reference: /filesserver1/officefiles/instructword/av-149/AV-149-BW1-5K-PIN-SP1.doc, created October 19, 1999

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 (20 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) To test the AV-149 in a sweep frequency mode (DC to 150 MHz) the AVK-AV-C and the sampling scope should be replaced by a network analyzer.
- 5) CAUTION: The amplifier will be damaged if the anode and cathode connections are reversed. Also, the photo diode must not be installed or removed once the ± 15 V prime power is on and the breakdown voltage of the diode must exceed the applied bias levels. The warranty does not apply to failures resulting from abuses related to the above.
- 6) The leads of the photo diode should not be inserted more than 1.0 cm into the socket.
- 7) The ± 15 VDC supply should be turned off when installing or removing the photo diode.
- 8) For additional information:

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FIG. 2: DIODE SOCKET PIN CONNECTIONS

- 1) ANODE
- 2) CASE
- 3) CATHODE

PERFORMANCE CHECK SHEET