INSTRUCTIONS

MODEL AV-149-BW3-1K-PIN-SP2-B 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 or liability assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.
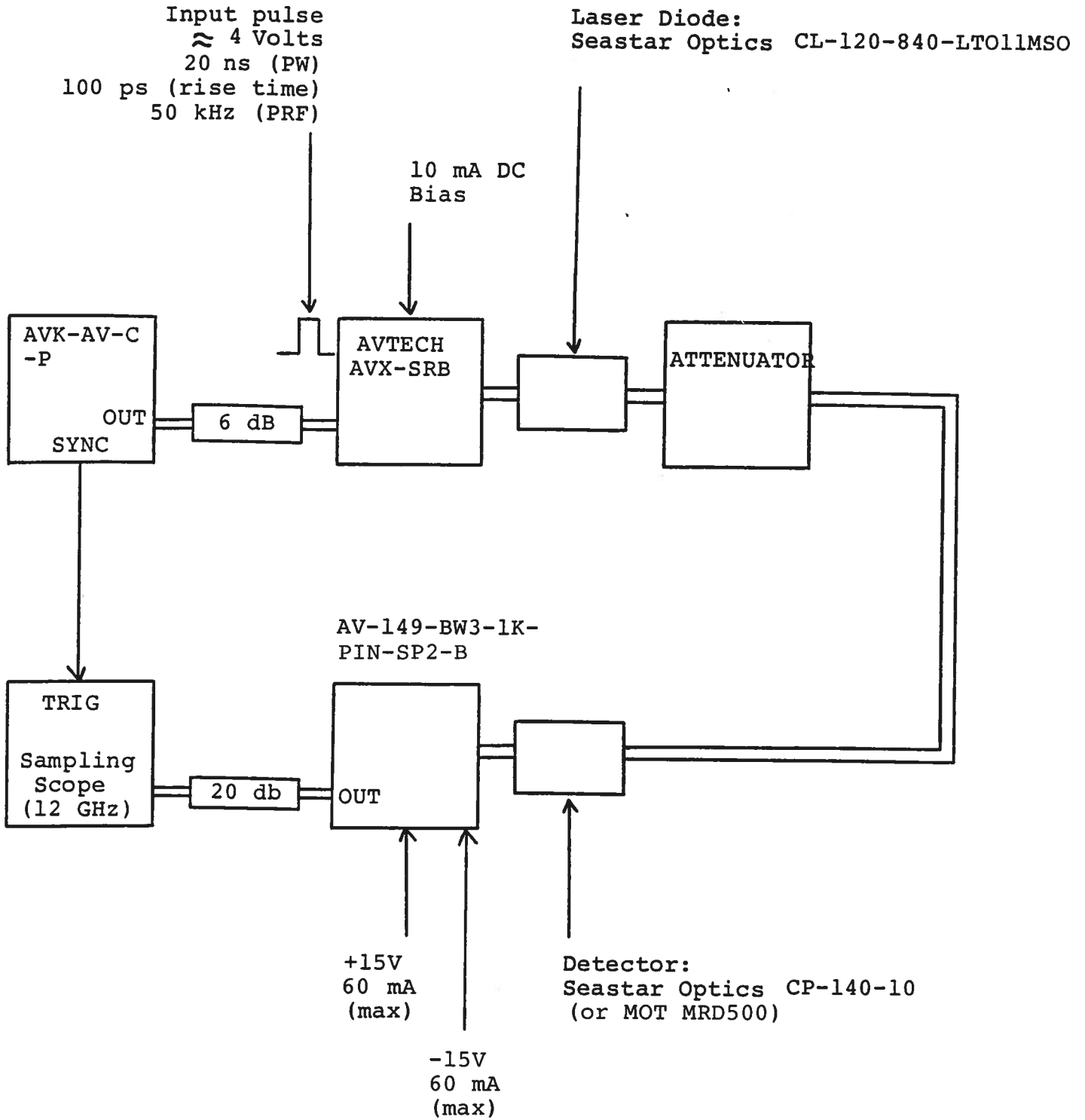
Input pulse
≈ 4 Volts
20 ns (PW)
100 ps (rise time)
50 kHz (PRF)

Laser Diode:
Seastar Optics CL-120-840-LTO11MSO

10 mA DC
Bias

AVK-AV-C
-P

OUT

SYNC

6 dB

AVTECH
AVX-SRB

ATTENUATOR

AV-149-BW3-1K-
PIN-SP2-B

TRIG

Sampling
Scope
(12 GHz)

20 db

OUT

+15V
60 mA
(max)

-15V
60 mA
(max)

Detector:
Seastar Optics CP-140-10
(or MOT MRD500)

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) 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.

4) CAUTION: The amplifier will be damaged if the anode and cathode connections are reversed.

5) The leads of the photo diode should not be inserted more than 1.0 cm into the socket.

6) The ±15 VDC supply should be turned off when installing or removing the photo diode.

7) For additional information:

    Tel: (613) 226-5772
    Fax: (613) 226-2802
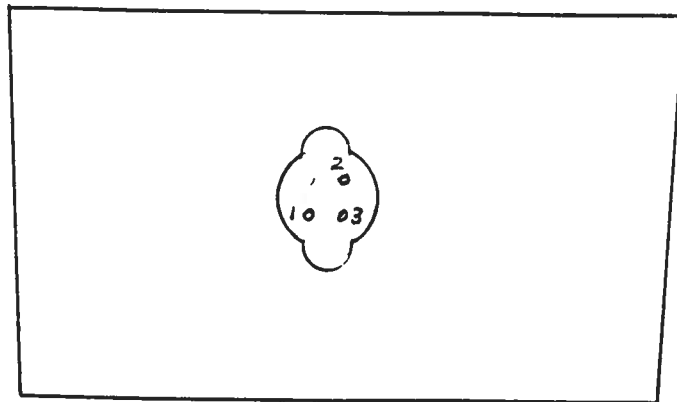
Fig. 2   <u>DIODE SOCKET PIN CONNECTIONS</u>

1)   ANODE
2)   CASE
3)   CATHODE

April 16/97

Disk: AV —

Name: 149BW31K.INS