

# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
ENGINEERING - MANUFACTURING

□ P.O. BOX 265  
OGDENSBURG  
NEW YORK  
13669  
(315) 472-5270

☒ BOX 5120, STN. "F"  
OTTAWA, ONTARIO  
CANADA K2C 3H4  
TEL: (613) 226-5772  
FAX: (613) 226-2802  
TELEX: 053-4591

## INSTRUCTIONS

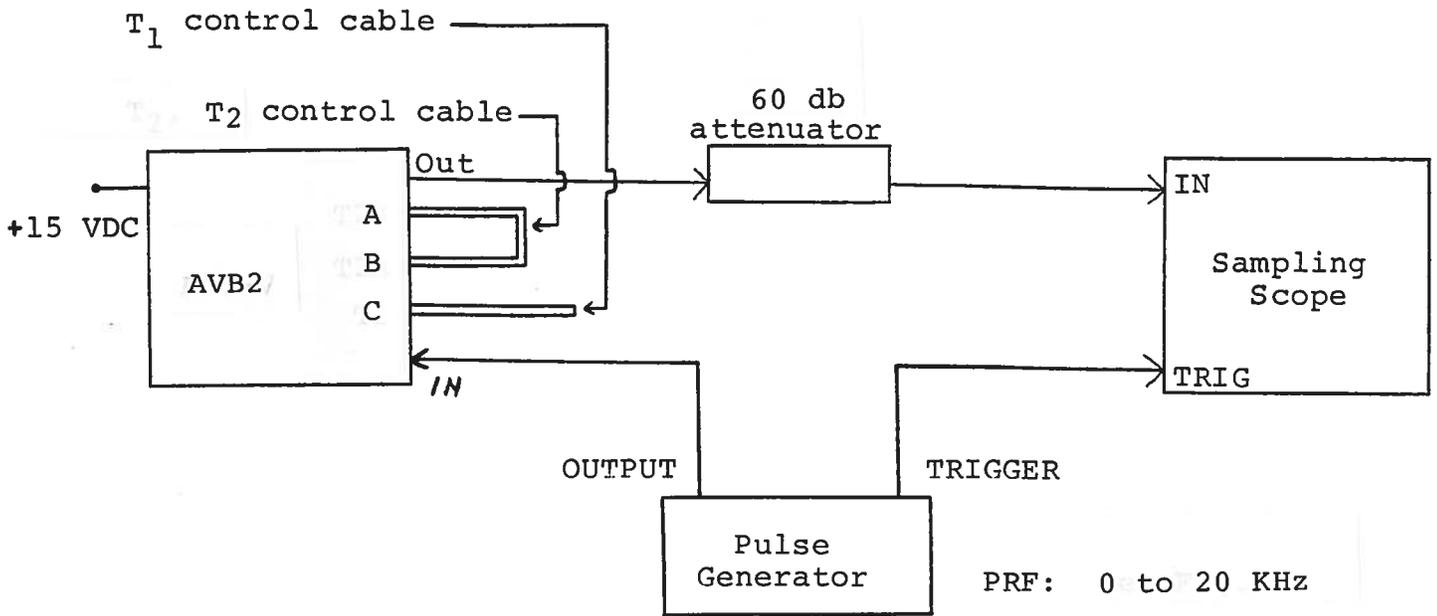
MODEL AVB2-AH4 PULSE GENERATOR

S.N.:

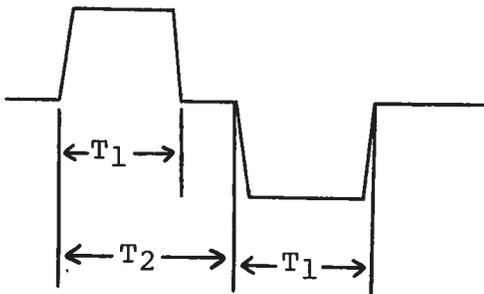
### WARRANTY

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 or liability assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

PULSE GENERATOR TEST ARRANGEMENT

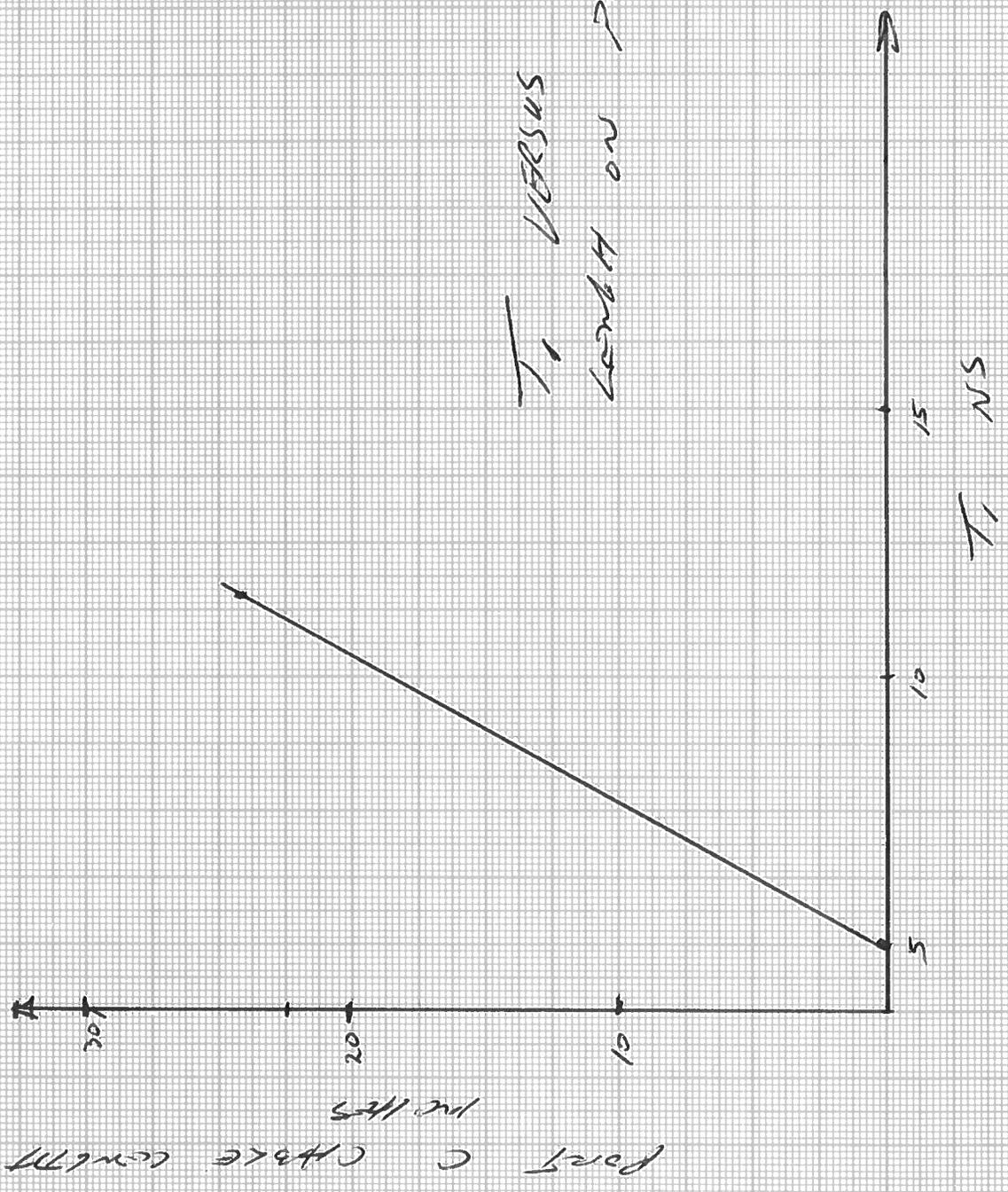


PRF: 0 to 20 KHz  
PW: 0.1 to 1.0 usec  
AMP: +2 to +5 volts (TTL)

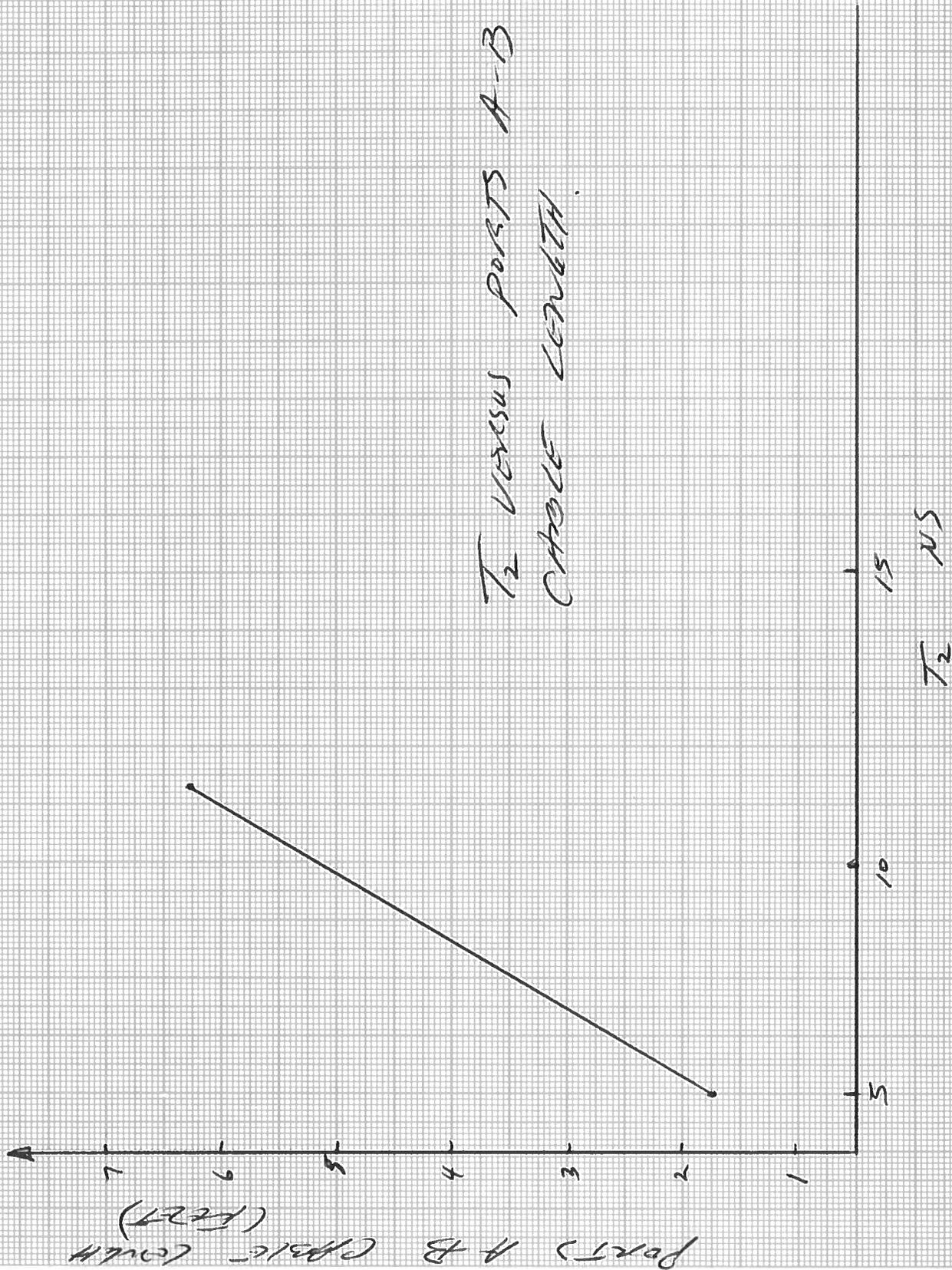


Notes:

- 1) The bandwidth capability of components and instruments used to display the pulse generator output signal (attenuators, cables, connectors, etc.) should exceed one gigahertz.
- 2) The use of 60 db attenuator at the sampling scope vertical input channel will insure a peak input signal to the sampling scope of less than one volt.
- 3) The time  $T_1$  is controlled by the length of open circuited coaxial cable connected to port C (see Fig. 2) while  $T_2$  is controlled by the length of miniature coaxial cable connected between ports A and B (see Fig. 3). The cables may be fabricated from RG 174 cable (or from RG58A).
- 4) The output amplitude may be varied from 50 volts to 180 volts using the one turn AMP control.
- 5) The monocycle generator can withstand an infinite VSWR on the output port.
- 6) The +15 volt supply should be removed when changing cables because the center conductor at Port C is at a DC potential of 400 volts.



$T_1$  VERSUS CABLE LENGTH ON PORT C.



01.24.91