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

甾 BOX 5120 STN. F OTTAWA, ONTARIO CANADA K2C 3H4 TEL: (613) 226-5772
FAX: (613) 226-2802

## INSTRUCTIONS

## MODEL AVC-V PULSE GENERATOR

## 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.


1) The bandwidth cadabilitv of components and instruments used to displav the pulse generator outout signal (attenuators. cables. connectors. etc.) should exeeed one gigaherta.
2) The use of 40 db attenuator at the sampling scope vertical inout channel will insure a peak inout signal to the sampling scope of less than one volt.
3) The maximum allowable PFiF and the pulse width $T_{1}$ are Felated as shown in Fig. 1. It is to be noted that for T, set at the minimum value, the PRF mav be extended to 1 MHz while for $T_{1}$ set at the maximum value, the PRF must not exceed 100 KHz .
4) The time $T_{1}$ is controlled by the length of ooen circuited coaxial cable connected to port $T_{1}$ see Fig. 2) while $T x$ is controlled by the length of miniature coaxial cable connected between ports T2A and T2B (see Fig. 3 ). It is recommended that $T$, be set to the minimum value and $T$ then adjusted to the desired end value by adjusting the cable length. Finally. $T_{i}$ is then increased to reduce $T_{z}$ to zero. The cable mav be fabricated from FGG 174 cable.
5) To DC offset the output pulse connect a DC power supply set to required DC offset value to the back panel terminals marked $D . S . \quad$ The maximum attainable DC offset voltage is $\pm 50$ volts. (option).
6) The monocvcle generator can withstand an infinite VSWR on the output port.
7) The +15 volt suoplv should be removed when changing cables. Note that the center conductor at Port $T_{i}$ is at a DC potential of +125 volts.



