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NANOSECOND WAVEFORM ELECTRONICS ENGINEERING - MANUFACTURING

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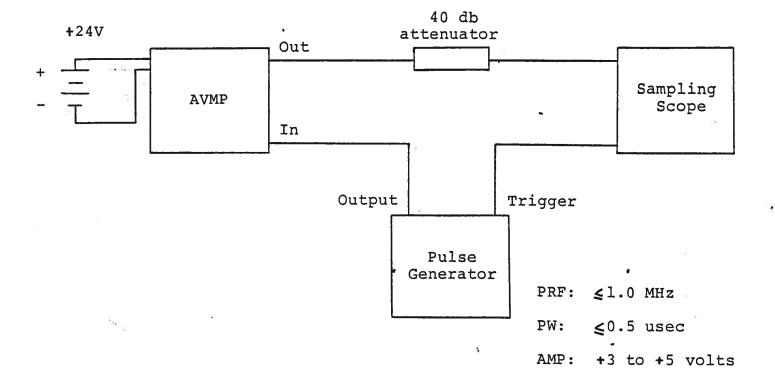
INSTRUCTIONS

MODEL AVMP-2-PN-OT-M PULSE GENERATOR

S.N.:

WARRANTY

Avtech Electrosystems Ltd. warrants products of manufacture to be free from defects in material 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 This warranty does not apply to units said defective item. which have been dissembled, modified or subjected to applicable specifications or conditions exceeding the 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.



Notes:

- The bandwidth capability of components and instruments used to display the pulse generator output signal (attenuators, cables, connectors, etc.) should exceed ten gigahertz.
- 2) The use of 40 db attenuator will insure a peak input signal to the sampling scope of less than one volt.
- 3) In general, the source pulse generator trigger delay control should be set in the 0.1 to 1.0 usec range. Other settings should be as shown in the above diagram.
- 4) The Model AVMP pulse generator can withstand an infinite VSWR on the output port.
- 5) <u>WARNING</u>: Model AVMP may fail if triggered at a PRF greater than 1.0 MHz.
- 6) The output pulse width is controlled by means of the one turn potentiometer (PW). The pot should initially be set maximum clockwise and the pulse width adjusted using an oscilloscope.
- 7) The output pulse amplitude is controlled by means of the one turn potentiometer (AMP). The pulse width may change by several nanoseconds as the output amplitude is reduced from maximum to minimum. Therefore it is convenient to first set the desired amplitude and then set the desired pulse width. Rotation of the PW pot causes the position of the falling edge of the pulse to change.
- 8) Some properties of the output pulse may change as a function of the amplitude pot setting. For some demanding applications, it may be desirable to use a combination of external attenuators and the amplitude pot to achieve the desired output amplitude.
- 9) The monitor output (-M) provides a 20 db attenuated coincident replica of the main output. (option).
- 10) For units with the OT offset option, the output DC offset level is varied from -5 to +5V (to 50 ohm) by the front panel OT one turn control. The DC offset may be turned off using the front panel OS ON-OFF toggle switch. (OT option).
- 11) Dual Polarity Option (for units with the OT or EO options).

To invert the output of the AVMP unit, connect the AVX-3-T unit to the OUT port. An inverted pulse is then obtained at the OUT port of the AVX-3-T unit. To offset the inverted pulse, connect a lead from the rear panel OS terminal to the DC terminal of the AVX-3-T unit. The DC offset at the output of the AVX-3-T unit is then controlled by the front panel OS control.