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NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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INSTRUCTIONS

MODEL AVMR-2 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 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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TABLE OF CONTENTS

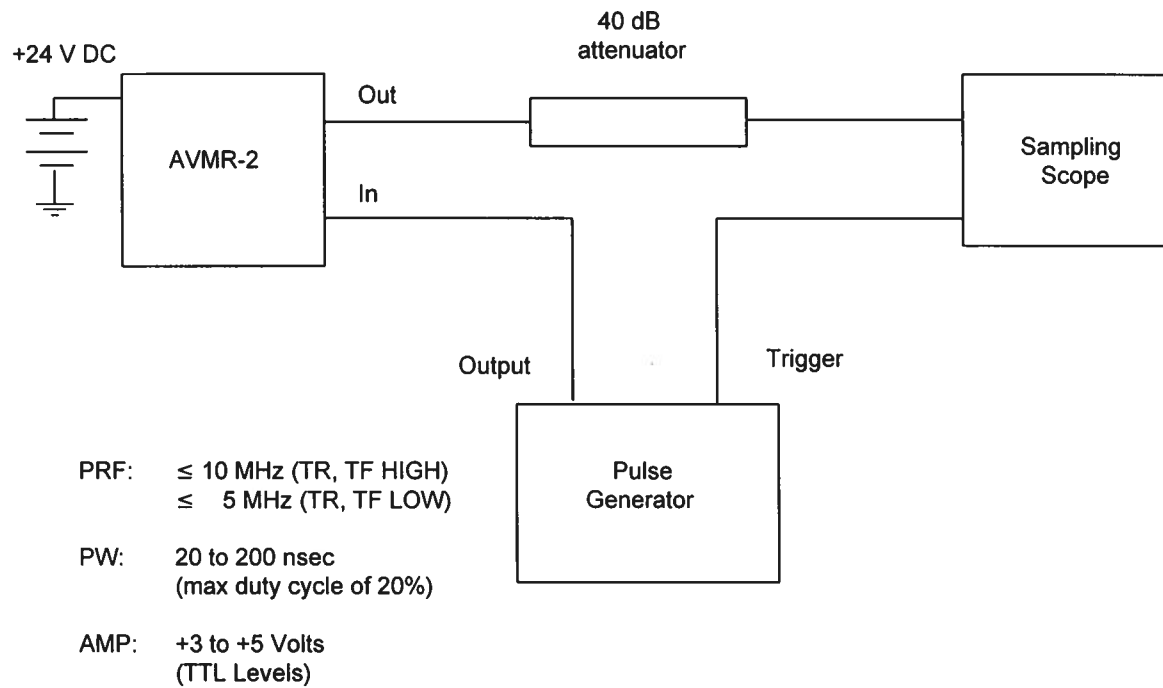
WARRANTY 2

TABLE OF CONTENTS 3

FIG. 1: PULSE GENERATOR TEST ARRANGEMENT 4

GENERAL OPERATING INSTRUCTIONS 5

PERFORMANCE CHECK SHEET 6

FIG. 1: PULSE GENERATOR TEST ARRANGEMENT

GENERAL OPERATING INSTRUCTIONS

- 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 40 dB attenuator will insure a peak input signal to the sampling scope of less than one volt.
- 3) When triggering the AVMR-2 from a high speed lab pulse generator it may be necessary to shunt the input to the AVMR-2 by a 50 Ohm resistor to eliminate reflection which may interfere with the operation of the lab pulse generator.
- 4) 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.
- 5) WARNING: Model AVMR-2 may fail if triggered at a PRF greater than 10 MHz or if the duty cycle exceeds 20% or if the PW exceeds 200 nsec.
- 6) The output amplitude is controlled by means of the one turn potentiometer (Amp).
- 7) The output pulse width is controlled by means of the one turn potentiometer (PW).
- 8) With the TR switch in the L position, the unit provides an output rise time of 300 psec. With the TR switch in the H position, the rise time is about 3 nsec.
- 9) The TF switch provides a fall time of 300 psec when in the L position and a fall time of 3 nsec when in the H position.
- 10) The PRF should not exceed 5 MHz when either the TR or TF switches are in the LOW position.
- 11) The required output DC offset voltage is applied to the rear panel OS solder terminals (± 50 Volts, 100 mA max).