AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
ENGINEERING – MANUFACTURING

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INSTRUCTIONS

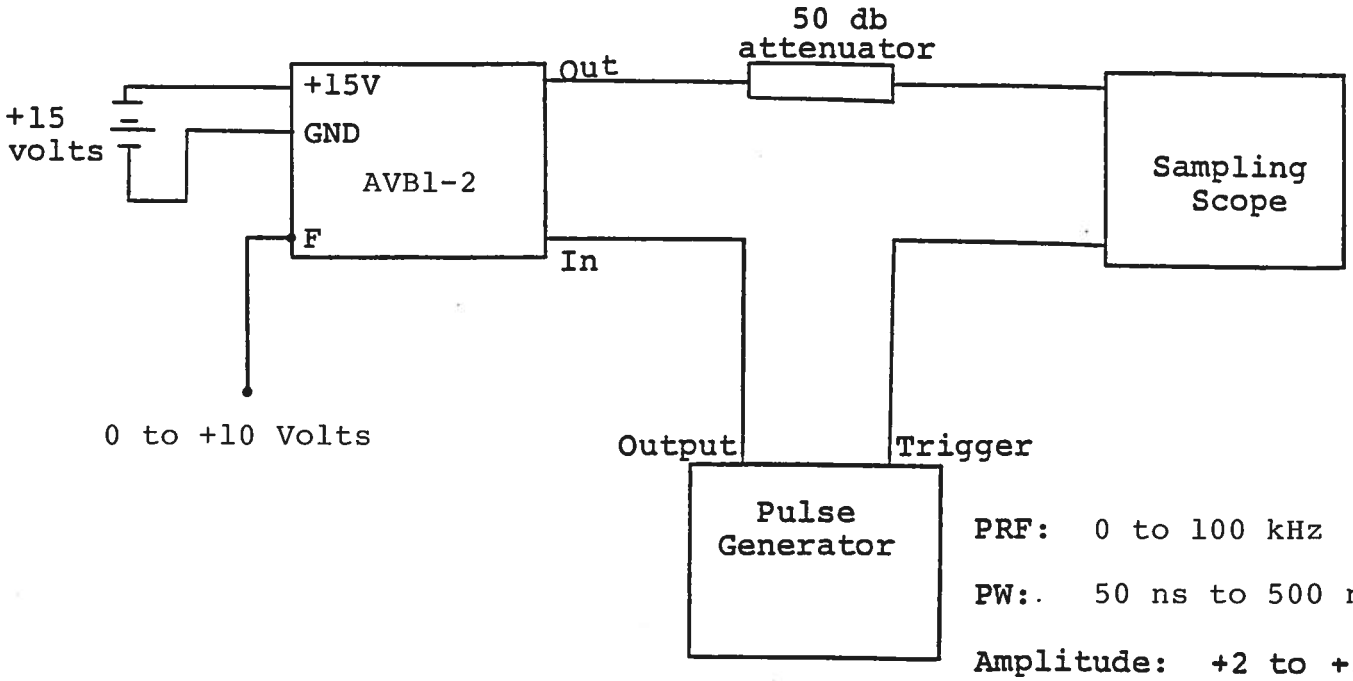
MODEL AVB1-2 MONOCYCLE GENERATOR

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 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.

MONOCYCLE GENERATOR TEST ARRANGEMENT



Notes:

1) The bandwidth capability of components and instruments used to display the monocycle generator output signal (attenuators, cables, connectors, etc.) should exceed 10 GHz.

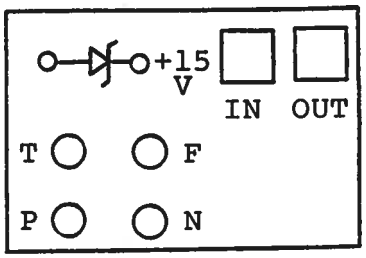
2) The use of a 50 db attenuator will insure a peak input signal to the sampling scope of less than one volt.

3) In general, the pulse generator delay control should be set in the 100 ns range. Other settings should be as shown in the above diagram. The monocycle generator output is delayed with respect to the trigger input signal by about 30 ns (typically).

4) The monocycle generator can withstand an infinite VSWR on the output port.

5) The output frequency is about 500 MHz when 0 V is applied to the F solder terminal and 200 MHz when +10V is applied to the F solder terminal ($R_{IN} \geq 2.2K$). Note that the frequency may be continuously varied from 200 to 500 MHz by varying the voltage from 10 to 0 Volts.

6) The P and N pots are for minor adjustments to the widths of the positive and negative voltage swings. Clockwise rotation of the pots increases the widths. The T pot is for minor adjustment to the separation of the positive and negative swings (when in 200 MHz mode only). Clockwise rotation of the pot increases the separation.



FRONT VIEW

02.05.92 Edition A