

**AVTECH ELECTROSYSTEMS LTD.**

**NANOSECOND WAVEFORM ELECTRONICS  
ENGINEERING . MANUFACTURING**

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INSTRUCTIONS

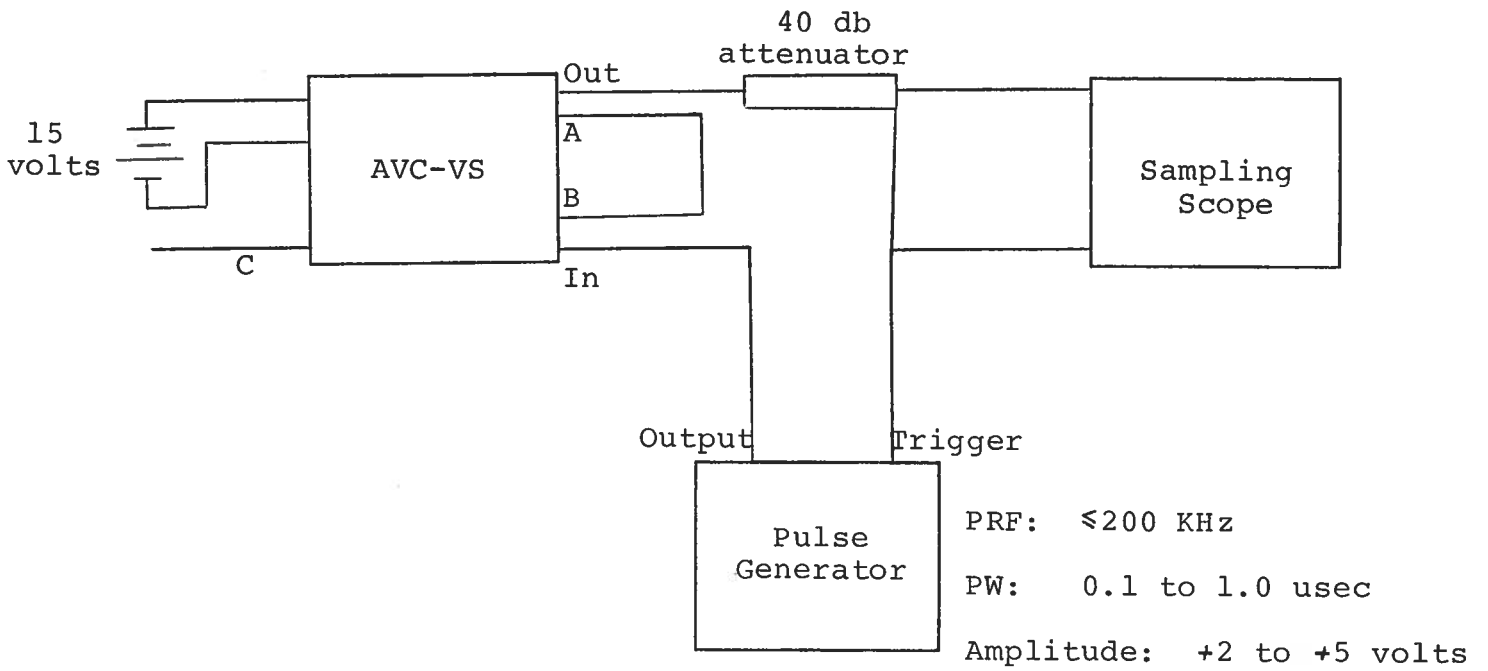
MODEL AVC-VS MONOCYCLE GENERATOR

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 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.

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 1 GHz.
- 2) The use of a 40 db attenuator will insure a peak input signal to the sampling scope of less than one volt.
- 3) In general, the pulse generator trigger delay control should be set in the 100 nsec 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 75 nsec (typically).
- 4) The monocycle generator can withstand an infinite VSWR on the output port.
- 5) The required fundamental output frequency (or period) in the range of 20 - 200 MHz is selected by adjusting the length ( $L_C$ ) of open circuited cable connected to port C and the length ( $L_{AB}$ ) of cable connected between ports A and B in accordance with the curves shown in the attached graph. Coaxial cable meeting or exceeding the specifications of RG 174 is recommended.

MONOCYCLE PERIOD VERSUS  
CABLE LENGTHS  $L_c + L_{AB}$

FOR MODEL AVE-15

S.N. 159

