



# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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## INSTRUCTIONS

### MODEL AVE1 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 assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

### TECHNICAL SUPPORT

Phone: 613-226-5772 or 1-800-265-6681

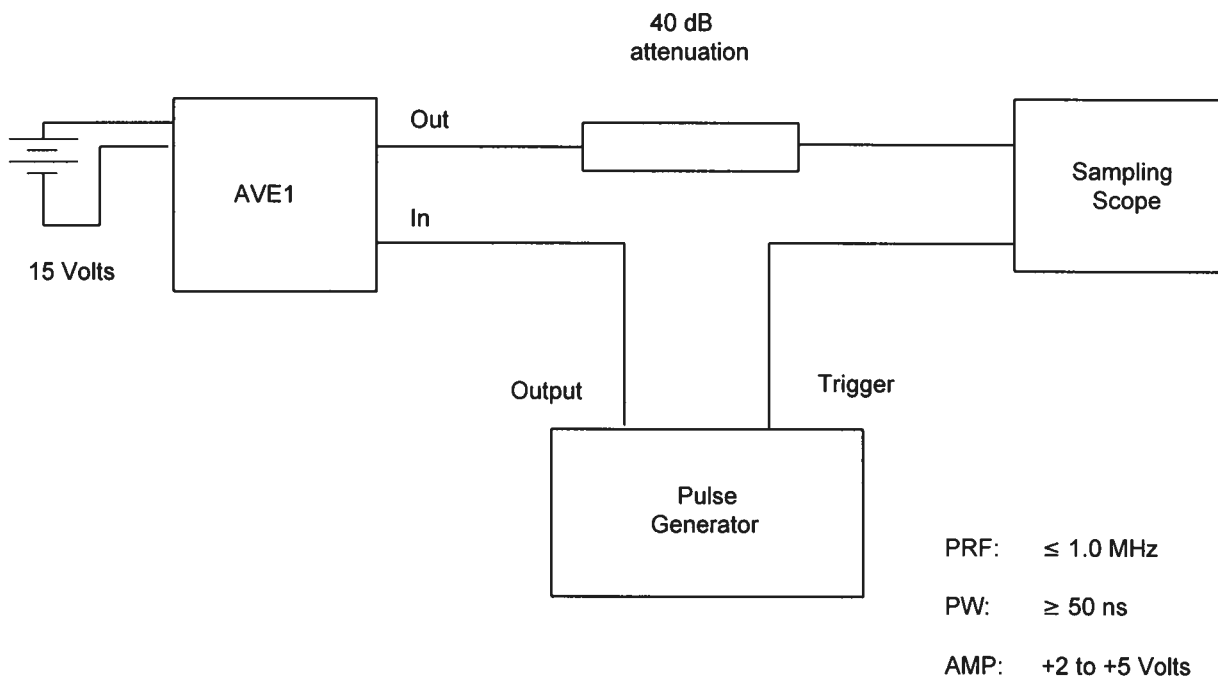
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**FIG. 1: MONOCYCLE GENERATOR TEST ARRANGEMENT**

## GENERAL OPERATING INSTRUCTIONS

- 1) The bandwidth capability of components and instruments used to display the monocyte generator output signal (attenuators, cables, connectors, etc.) should exceed 10 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 delay control should be set in the 100 ns range. Other settings should be as shown in the above diagram. The monocyte generator output is delayed with respect to the trigger input signal by about 38 ns (typically).
- 4) The monocyte generator can withstand an infinite VSWR on the output port.
- 5) The frequency of the output and the nature of the spurious following the monocyte may be varied by making minor adjustments to the two front panel trim pots located below the IN SMA. Clockwise rotation of the pot on the right increases the pulse width (falling edge) while clockwise rotation of the left pot decreases the pulse width (leading edge).
- 6) For additional assistance:

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