

# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
ENGINEERING – MANUFACTURING

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## INSTRUCTIONS

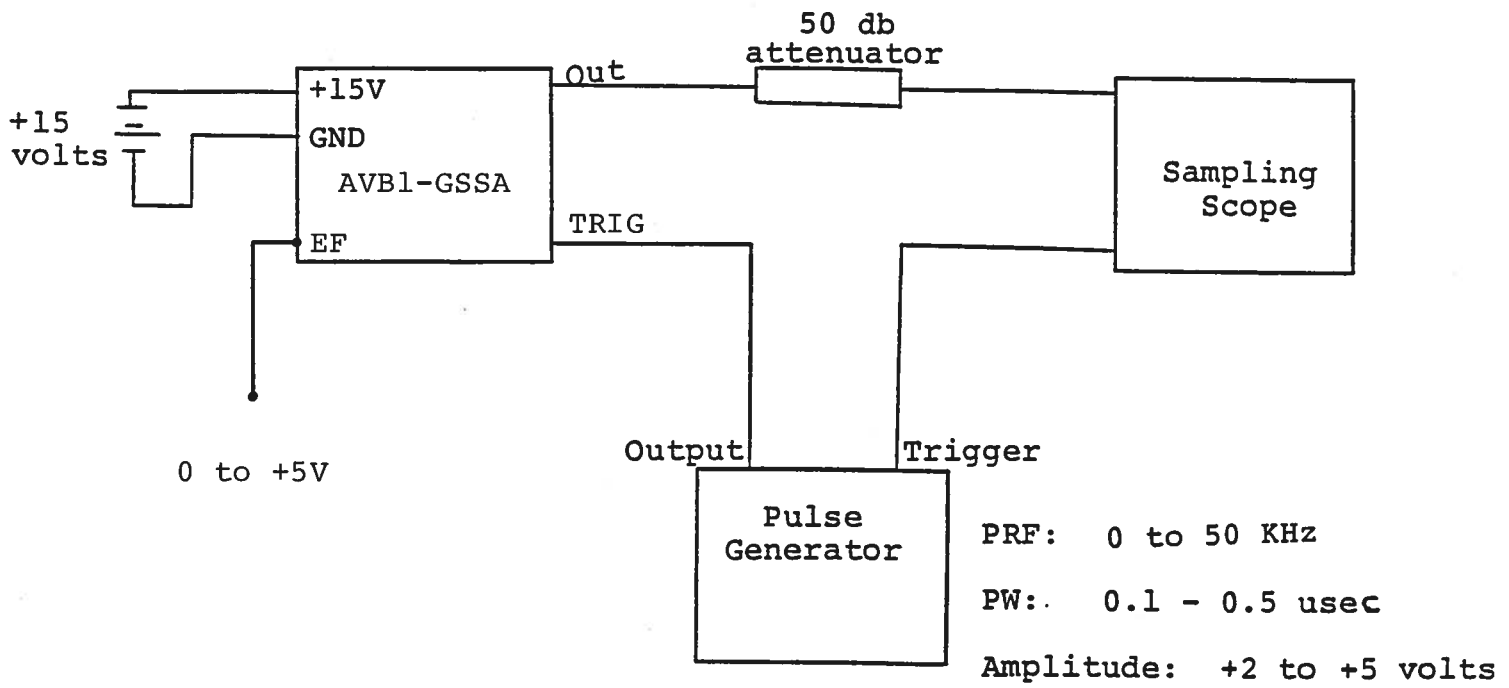
MODEL AVB1-GSSA MONOCYCLE GENERATOR

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 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 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 30 nsec (typically).
- 4) The monocycle generator can withstand an infinite VSWR on the output port.
- 5) The output frequency is about 60 MHz when 0 V is applied to the EF solder terminal and 30 MHz when +5V is applied to the EF solder terminal ( $R_{IN} \geq 7K$ ). Note that the frequency may be continuously varied from 30 to 60 MHz by varying the voltage from +5 to 0 volts.



Prime power: +15 volts, 300 mA.  
Package size: 1.6" x 3.0" x 6.0",  
cast aluminum, blue enamel.  
Weight: 1.75 lbs.  
Connectors:  
Input, output: SMA.  
Power and control: Solder terminals.  
Other: See Model AVB1, pages 68  
and 69, Cat. No. 7.  
Price: \$1,492.00 US,  
FOB destination.  
Delivery: 3 weeks (quantity of 1).

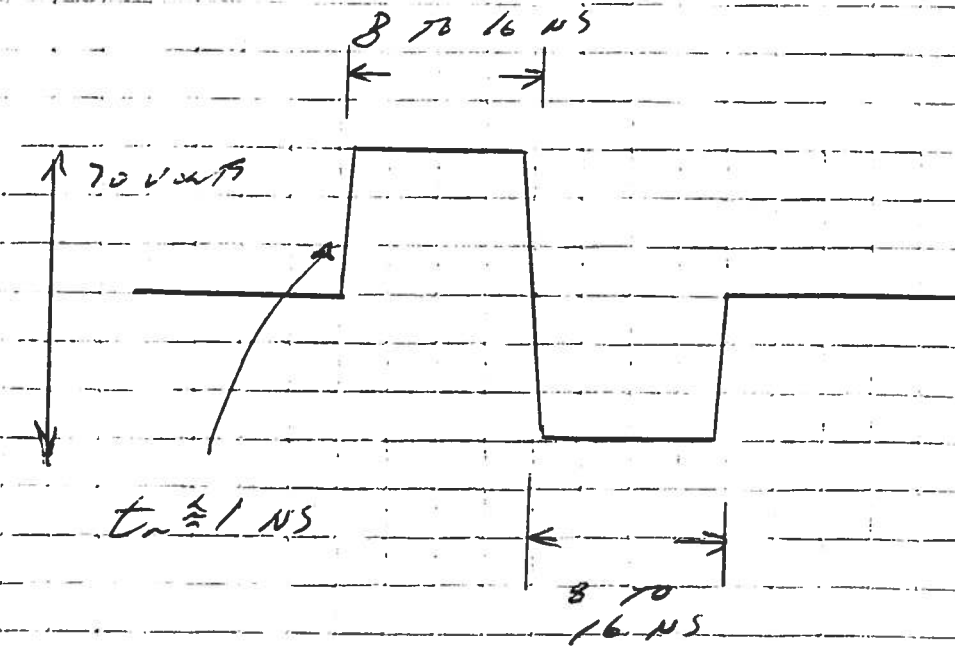
Thank you for your continuing interest in our products. Please call me again if you require any additional information.

Rgds



Walter J. Chudobiak  
Chief Engineer

WJC:pr



AC/1 - G55A OUTPUT WAVEFORM

05.29.91