

AVTECH



AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS

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INSTRUCTIONS

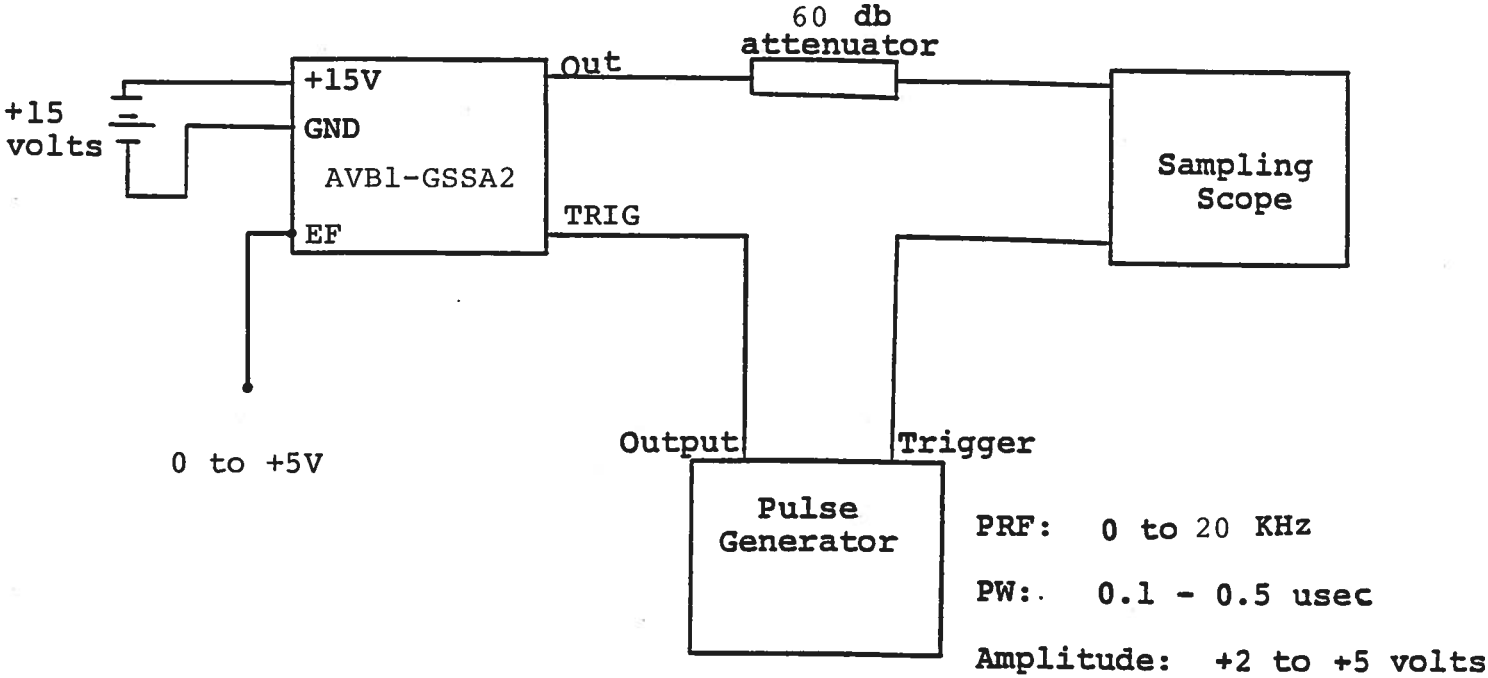
MODEL AVB1-GSSA2 MONOCYCLE GENERATOR

S.N. :

WARRANTY

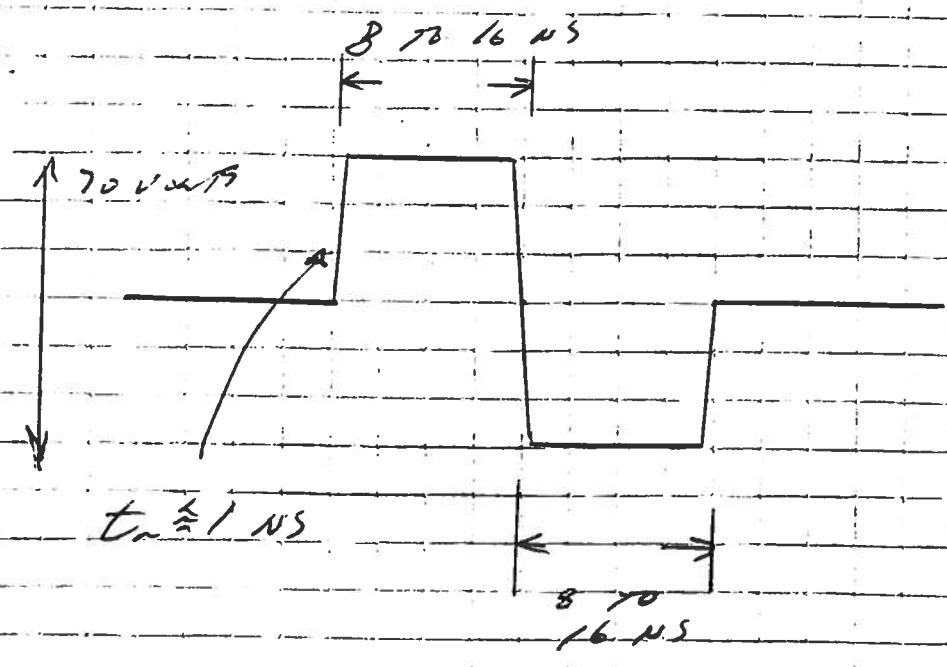
Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech 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 60 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 60 MHz when 0 V is applied to the EF solder terminal and 30 MHz when +5V is applied to the EF solder terminal ($R_{IN} \gg 7K$). Note that the frequency may be continuously varied from 30 to 60 MHz by varying the voltage from +5 to 0 volts.



PC131 - G55A OUTPUT WAVEFORM

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
ENGINEERING . MANUFACTURING

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Fax No: 4511 Our Fax No: 613-226-2802
To: Geophysical Survey Systems, Your Ref No: _____
NH Our Ref: _____
Attn: Alan Schutz Date: October 28, 1991
Tel: 603-893-1109
From: Avtech Electrosystems Ltd. Receivers Fax No: 603-889-3984
30-60 MHz Monocycle No. pages faxed: 5
Subject: Generators

As per our recent telephone conversations, I am pleased to provide a price and delivery quotation for several special purpose mono-cycle generators meeting the following specifications:

A)

Model designation: AVB1-GSSA1.
Output frequency: 30 MHz to 60 MHz
(continuously variable).
Output frequency controlled by potential (0 to +5 volts) applied to solder terminal ($R_{IN} \approx 2.2 K$). Output waveform is of form shown in enclosed sketch.
Output amplitude: ≥ 160 volts peak to peak.
(to 50 ohms)
PRF: 0 to 50 KHz.
Equals input trigger PRF.
Trigger: TTL, PW ≥ 50 ns.
Propagation delay: ≈ 100 ns.
Output spurious level: ≤ 26 db.

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:	SMA.
Input, output:	Solder terminals.
Power and control:	
Other:	See Model AVB1, pages 88 and 89, Cat. No. 8.
Price:	\$1,745.00 US, FOB destination.
Delivery:	4 weeks.
B)	
Model designation:	AVB1-GSSA2.
Output frequency:	30 MHz to 60 MHz (continuously variable). Output frequency controlled by potential (0 to +5 volts) applied to solder terminal ($R_{IN} \approx 2.2 K$). Output wave- form is of form shown in enclosed sketch.
Output amplitude: (to 50 ohms)	≥ 220 volts peak to peak.
PRF:	0 to 50 KHz. Equals input trigger PRF.
Trigger:	TTL, PW ≥ 50 ns.
Propagation delay:	≈ 100 ns.
Output spurious level:	≤ 26 db.
Prime power:	+15 volts, 500 mA.
Package size:	1.7" x 4.2" x 8.3", cast aluminum, blue enamel.
Weight:	2.5 lbs.
Connectors:	SMA.
Input, output:	Solder terminals.
Power and control:	

Other:	See Model AVB1, pages 88 and 89, Cat. No. 8.
Price:	\$2,595.00 US, FOB destination.
Delivery:	4 weeks.
C)	
Model designation:	AVB1-GSSA3.
Output frequency:	30 MHz to 60 MHz (continuously variable). Output frequency controlled by potential (0 to +5 volts) applied to solder terminal ($R_{IN} \approx 2.2 K$). Output wave- form is of form shown in enclosed sketch.
Output amplitude: (to 50 ohms)	≥ 400 volts peak to peak.
PRF:	0 to 50 KHz. Equals input trigger PRF.
Trigger:	TTL, PW ≥ 50 ns.
Propagation delay:	≈ 100 ns.
Output spurious level:	≤ 26 db.
Prime power:	+15 volts, 600 mA.
Package size:	1.7" x 4.2" x 8.3", cast aluminum, blue enamel.
Weight:	3.0 lbs.
Connectors:	
Input, output:	SMA.
Power and control:	Solder terminals.
Other:	See Model AVB1, pages 88 and 89, Cat. No. 8.
Price:	\$3,590.00 US, FOB destination.
Delivery:	4-6 weeks.

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

Rgds

A handwritten signature in black ink, appearing to read 'Walter J. Chudobiak', written in a cursive style.

Walter J. Chudobiak
Chief Engineer

WJC:pr

03.04.92

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