

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
ENGINEERING - MANUFACTURING

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INSTRUCTIONS

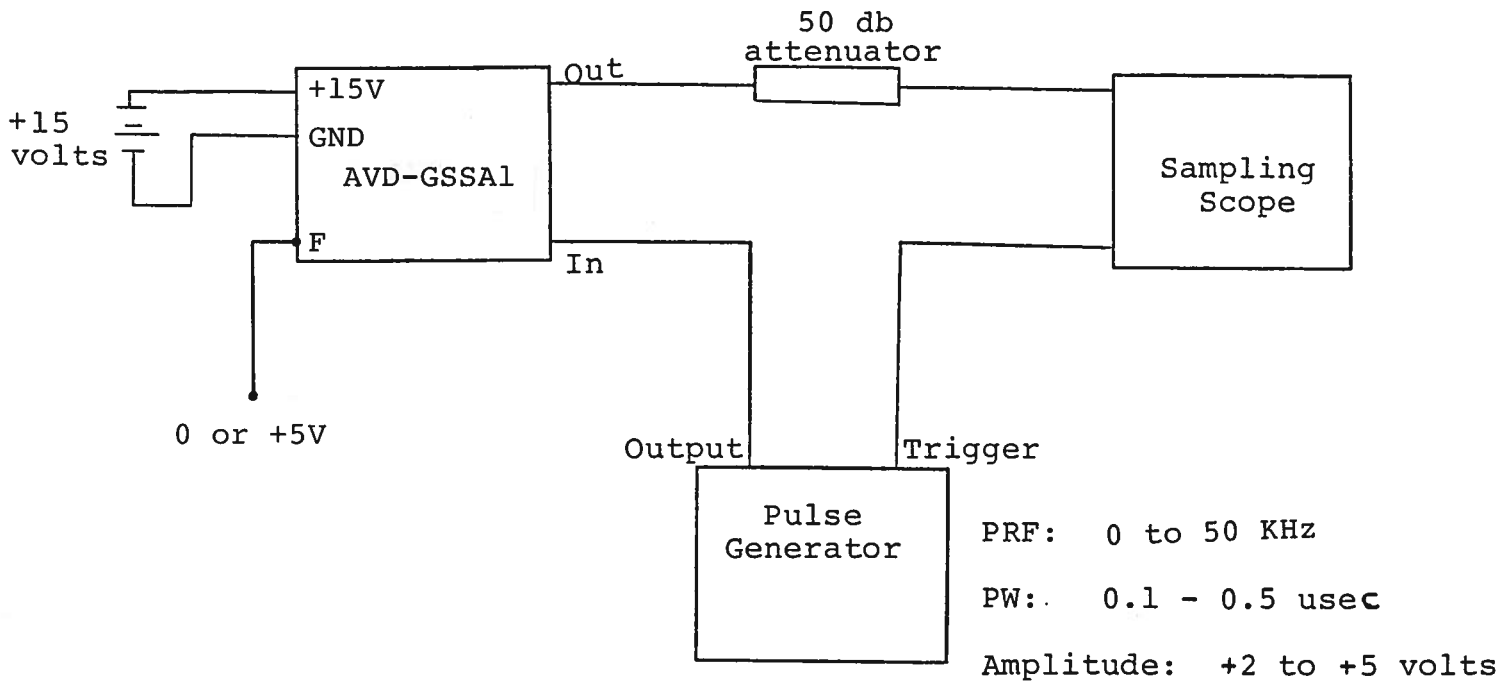
MODEL AVD-GSSA1 MONOCYCLE GENERATOR

S.N. :

WARRANTY

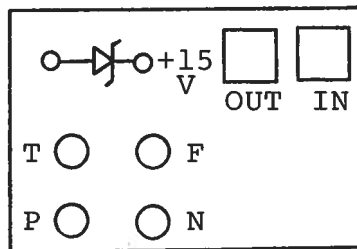
Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech 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

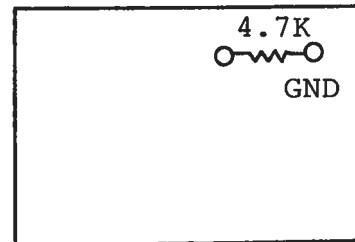


Notes:

- 1) The bandwidth capability of components and instruments used to display the monocyte 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 monocyte generator output is delayed with respect to the trigger input signal by about 30 nsec (typically).
- 4) The monocyte generator can withstand an infinite VSWR on the output port.
- 5) The output frequency is 900 MHz when 0 V is applied to the F solder terminal and 500 MHz when +5V is applied to the F solder terminal ($R_{IN} \geq 10K$). Note that the frequency may be continuously varied from 500 to 900 MHz by varying the voltage from 5 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 500 MHz mode only). Clockwise rotation of the pot increases the separation. At time of shipping the pots were adjusted for 500 and 900 MHz operation.
- 7) A 4.7K resistor is attached on the rear panel between a solder terminal and ground. This resistor may be used to adjust the separation of the positive and negative swings (when in the 900 MHz mode). Decreasing the resistance will increase the separation. CAUTION: This resistance should not be less than 2.2K. Also insure that the solder terminal is never shorted to ground.



FRONT VIEW



REAR VIEW

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Fax No: 2851 Our Fax No: 613-226-2802

To: Geophysical Survey Systems Your Ref No: _____

Tel: 603-889-4841 Our Ref: _____

Attn: Allan Schultz Date: June 15, 1990

From: Avtech Electrosystems Ltd. Receivers Fax No: 604-889-3984

Subject: 500 - 900 MHz No. pages faxed: 2
Monocycle Generator

As per our recent phone conversation I am pleased to provide a price and delivery quotation for a special purpose monocycle generator meeting the following specifications.

Model designation: AVD-GSSA1

Output frequency: 500 MHz or 900 MHz.
Output frequency controlled by potential (0 or +5 volts) applied to solder terminal.

Output amplitude: \geq 50 volts peak to peak.
(to 50 ohms)

PRF: 0 to 50 KHz.
Equals input trigger PRF.

Trigger: TTL, PW \geq 50 nsec.

Propagation delay: \approx 30 nsec.

Output spurious level: \leq 26 db.

Prime Power: + 15 volts, 300 mA.

Package size: 1.6" x 3.0" x 6.0"
Cast aluminum, blue enamel.

Weight: \leq 1.75 lbs.

...../2

Connectors:

Input, output:

SMA

Power and control:

Solder terminals

Other:

See Model AVD, pages 68 and 69,
Cat. No. 7.

Price:

\$1,992.00 U.S. each

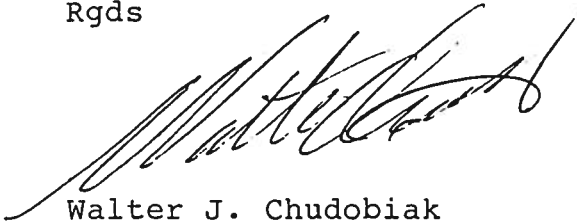
FOB: destination.

Delivery:

60 - 90 days ARO.

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

Rgds



Walter J. Chudobiak
Chief Engineer

WJC:sm

10.11.90