



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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INSTRUCTIONS

MODEL AVD-GSSC1 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

Fax: 613-226-2802 or 1-800-561-1970

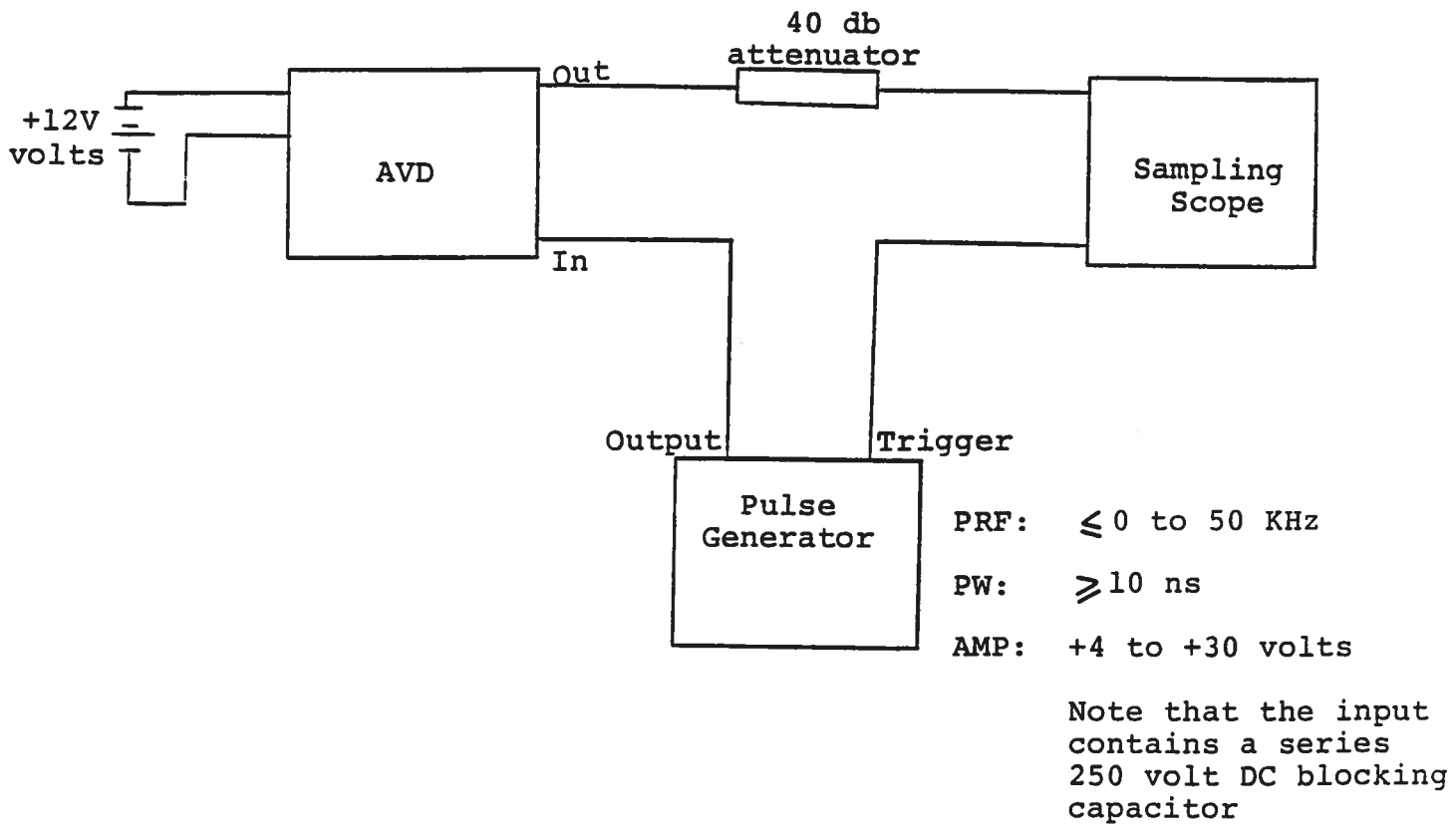
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FIG. 1: MONOCYCLE GENERATOR TEST ARRANGEMENT



GENERAL OPERATING INSTRUCTIONS

- 1) The bandwidth capability of components and instruments used to display the monocycle 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 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.

PERFORMANCE CHECK SHEET

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
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Fax No: 4136 Our Fax No: 613-226-2802

To: Geophysical Survey Systems, NH Your Ref No: _____

Attn: Alan Schutz Date: July 17, 1991
Tel: 603-893-1109

From: Avtech Electrosystems Ltd. Receivers Fax No: 603-889-3984

Subject: 1000 MHz Monocycle Generator No. pages faxed: 2

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

Model designation: AVD-GSSC1.

Output frequency: 1000 MHz (fixed).

Output amplitude: ≥ 20 volts peak to peak.
(to 50 ohms)

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

Trigger: +4 to +30 volts, PW = 10 ns. Input contains 150 volt series blocking capacitor.

Propagation delay: ≈ 40 ns.

Output spurious level: ≤ 26 db.

Prime power: +12 volts, 120 mA.

Note that internal regulators are employed to render the output waveform highly non-susceptible to input voltage variations.

Package size:

1.7" x 2.6" x 4.3".
Cast aluminum, blue enamel.

Connectors:

Input, output: SMA.
Power: Solder terminals.

Other:

See Model AVD, pages 86 & 87,
Cat. No. 8.

Price:

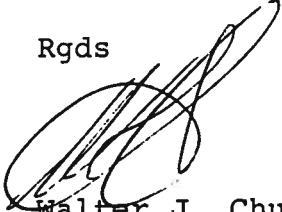
\$1,095.00 US,
FOB destination.

Delivery:

30 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:pr

08.07.91