



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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INSTRUCTIONS

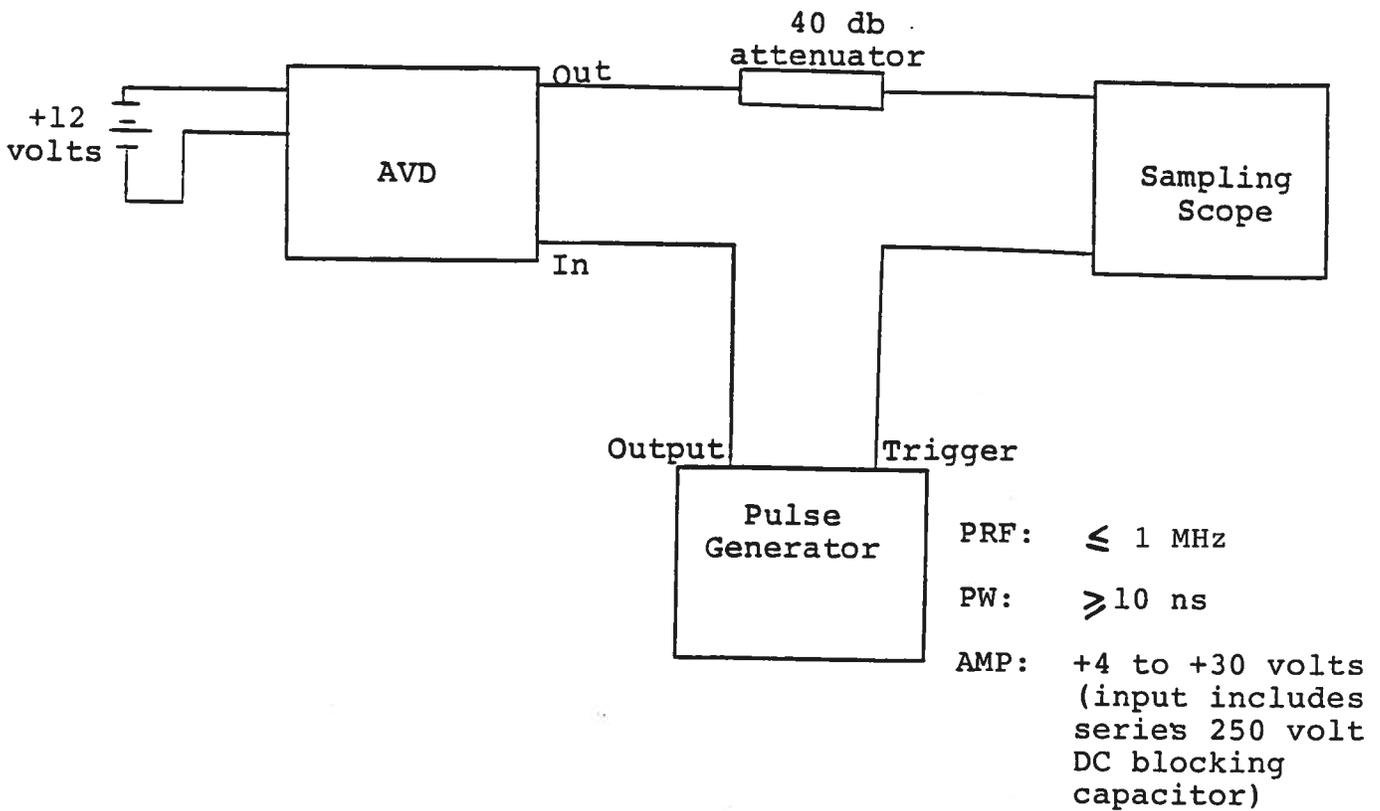
MODEL AVD-GSSB2T MONOCYCLE GENERATOR

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 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 monocycle generator output is delayed with respect to the trigger input signal by about 75 ns (typically).
- 4) The monocycle generator can withstand an infinite VSWR on the output port.
- 5) The output frequency can be adjusted (slightly) by rotating the front panel 10 turn trim pot. Clockwise rotation reduces the output frequency (and reduces the output spurious level).



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Fax Ref No: 6917 From: Avtech Electrosystems Ltd.

To: Geophysical Survey Systems Our Fax No: (613) 226-2802

Date: February 28, 1994

Attn: Alan Schutz Receivers Fax No: 603-889-3984
Tel: 603-893-1109

Subject: 2500 MHz Monocycle Generator No. of pages: 2

As per our recent telephone conversations, I am pleased to provide a price and delivery quotation for a temperature-stabilized monocycle generator meeting the following specifications:

Model designation: AVD-GSSB2T.

Output frequency: 2500 MHz (fixed).

Output amplitude: ≥ 12 Volts peak to peak. Voltage variation is less than +10% over (to 50 Ohms) the temperature range of 0 to +40°C.

PRF: 0 to 1 MHz. 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: ≤ 23 db.

Prime power: +12 Volts, 180 mA.

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

Package size: 1.7" x 3" x 6". Cast aluminum,
blue enamel.

Package size has been increased
because of spurious control
requirements.

Connectors: Input, output: SMA.
Power: Solder terminals.

Other: See Model AVE, pages 86 & 87, Cat.
No. 8.

Price: \$1,795.00 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



Dr. Walter Chudobiak
Chief Engineer

WC:pr

Mar 29/94