Lyons
AVD-LI 1
in 2001 file

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 dissembled, 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.
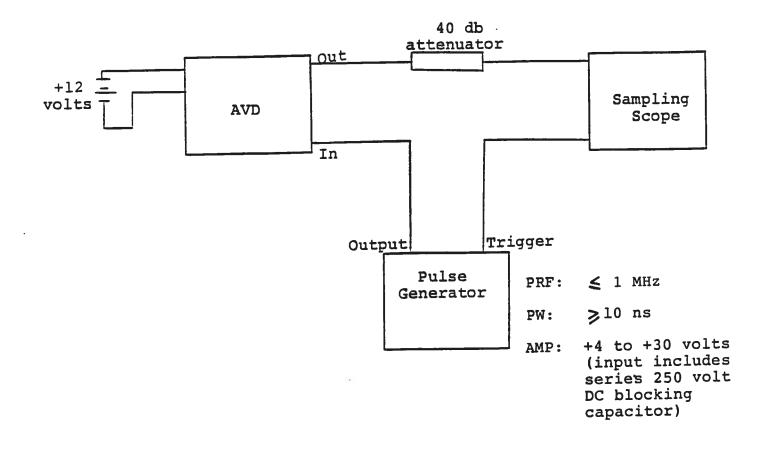
TECHNICAL SUPPORT

Phone: 613-226-5772 or 1-800-265-6681
Fax: 613-226-2802 or 1-800-561-1970

E-mail: info@avtechpulse.com
World Wide Web: http://www.avtechpulse.com

TABLE OF CONTENTS

FIG. 1: MONOCYCLE GENERATOR TEST ARRANGEMENT

+12 volts

AVD

Out

40 db attenuator

Sampling Scope

In

Output

Trigger

Pulse Generator

PRF: ≤ 1 MHz

PW: ≥ 10 ns

AMP: +4 to +30 volts
(input includes
series 250 volt
DC blocking
capacitor)

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 40db 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 100nsec 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).

☐ **P.O. BOX 265**
OGDENSBURG, NY
U.S.A. 13669-0265
TEL: (315) 472-5270
FAX: (613) 226-2802

TEL: 1-800-265-6681
FAX: 1-800-561-1970
U.S.A. & CANADA

🏠 **BOX 5120 STN. F**
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

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 Tel: 603-893-1109	**Receivers Fax No:**	603-889-3984
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: $\geqslant$12 Volts peak to peak. Voltage
(to 50 Ohms)   variation is less than $\pm$10% over
                      the temperature range of 0 to
                      +40^{0}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: $\approx$40 ns.

Output spurious level: $\leq$ 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