

#### AVTECH **ELECTROSYSTEMS** LTD.

NANOSECOND WAVEFORM ELECTRONICS **SINCE 1975** 

P.O. BOX 265 OGDENSBURG, NY U.S.A. 13669-0265

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TEL: (613) 226-5772 FAX: (613) 226-2802

Visio drawing

INS correct

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MODEL AVB2-TC-SB2 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

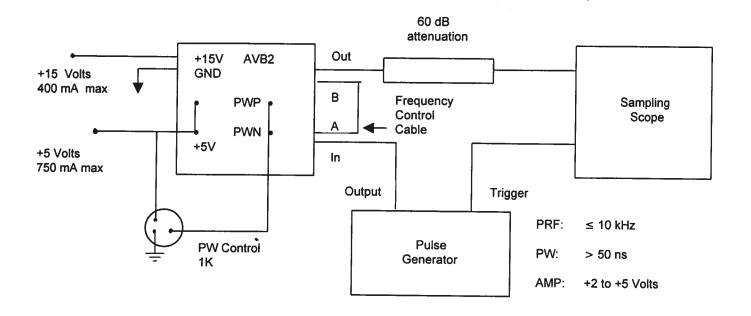
E-mail: info@avtechpulse.com World Wide Web: http://www.avtechpulse.com

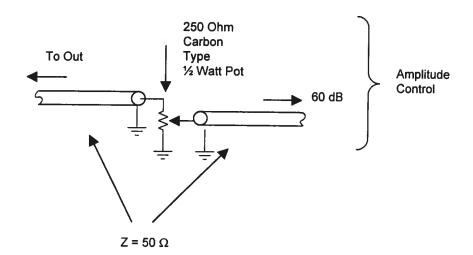
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Manual Reference: Q:\office\instructword\Avb\AVB2-TC-SB2eda.doc, created January 10, 2000

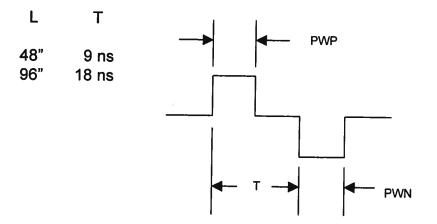
# FIG. 1: MONOCYCLE GENERATOR TEST ARRANGEMENT





### **GENERAL OPERATING INSTRUCTIONS**

- 1) The bandwidth capability of components and instruments used to display the pulse generator output signal (attenuators, cables, connectors, etc.) should exceed one gigahertz.
- 2) The use of 60 dB attenuator will insure a peak input signal to the sampling scope of less than one volt.
- The chassis should be securely bolted to a heat sink capable of dissipating about 10 Watts.
- In general, the pulse generator trigger delay control should be set in the < 100 ns range. Other setting s should be as shown in the above diagram. The monocycle generator output is delayed with respect to the trigger input signal by about 50 ns (typically).
- The frequency control cable (see attached graph) may be fabricated from RG174 miniature coax or from 85 mil semi-rigid cable. Increasing the cable length increases the "T" of the output waveform as follows:



- PWP and PWN are controlled by varying the DC potential on pins PWP and PWN from 0 to +5 Volts using either a 1K pot or an equipment switched resistor arrangement. PWP and PWN can be varied separately by removing the connecting shorting bar and employing two pots (or switches).
- 7) Two 4 cable groups of RG174 50 Ohm cables protrude for about 5 feet from the side of the chassis. These open circuited cables may be coiled as required but note that potentials as high as 330 VDC are present on the center conductor.

- 8) <u>CAUTION</u>: The +15 Volts supply should be disconnected when changing or removing the frequency control cable. (DC potential as high as 380V are applied to the center conductor).
- 9) A 250 Ohm pot may be used as shown in Fig. 1 to provide amplitude control
- 10) For additional information:

Tel: (613) 226-5772 Fax: (613) 226-2802

Email: info@avtechpulse.com



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

August 12, 1998

Brian Starkoski Sunnybrook Health Sciences Centre 2075 Bayview Avenue North York, Ontario M4N 3M5

Dear Brian:

Following our telephone conversation of August 11th, I am pleased to provide a price and delivery quotation for a special purpose monocycle generator meeting the following specifications:

Quote No:

8854

Model designation:

AVB2-TC-SB1

This module unit employs the same technology as

Model AVB2-C, S.N. 4200

Frequency:

100 to 170 MHz (Controlled by a delay line which connects to two SMA connectors on the 1.7" x 3.0"

face).

Amplitude:

0 to 300 Volts peak to peak. AMP control is via a

user-supplied 250 Ohm pot in the output line.

Instructions included.

PRF:

0 to 20 kHz

Input trigger required:

TTL, PW ≥ 50 ns

Prime power:

+ 15 VDC, 400 mA

Chassis size:

1.7" x 3.0" x 6.0"

Input and output connectors:

SMA (on 1.7" x 3.0" face)

Other:

See standard AVB2-TC-C, page 85, Cat. No. 10.

Price:

\$3,598.00 US each, FOB destination.

Note:

This price includes our standard 5% academic

discount.

GST:

7% extra.

PST:

8% extra, if applicable.

Delivery:

60-90 days ARO.

Thank you for your continuing interest in our products. Please call me again (1-800-265-6681) if you require any additional information.

Yours truly,

Dr. Walter Chudobiak Chief Engineer

WC:hw





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Fax No:

4550

File:

Q:\office\QUOTES\Q9598.doc

To:

Sunnybrook Health Sciences Centre

North York, Ontario

Attn:

Kasia Harasiewicz

Subject:

Price and delivery quotation

Sender's Fax:

613-226-2802

Receiver's Fax:

416-480-5714

Receiver's Phone:

416-480-6100

Date:

November 2, 1999

Number of pages:

2, including cover

Following our telephone conversation of November 2, 1999, I am pleased to provide a price and delivery quotation for a special purpose monocycle generator meeting the following specifications:

Quote Number:

9598

Model designation:

AVB2-TC-SB2

This module unit employs the same technology as Model

AVB2-C, S.N. 4200

Frequency:

30 to 60 MHz (Controlled by a delay line which connects to two SMA connectors on the 1.7" x 3.0" face) and by a one turn

pot which connects to three front panel solder terminals.

Amplitude:

0 to 300 volts peak to peak. AMP control is via a user-

supplied 250 Ohm pot in the output line. Instructions included.

PRF:

1 to 10 kHz

Input Trigger Required:

TTL, PW ≥ 50 ns

Prime Power:

+15 VDC, 400 mA

Chassis Size:

1.7" x 3.0" x 6.0"

Input and Output Connectors:

SMA (on 1.7" x 3.0" face)

Other:

See standard AVB2-TC-C, page 85, Cat. No. 10

Price:

\$3,698.00 US each, FOB destination.

Note:

This price includes our standard 5% academic discount.

GST:

7% extra

PST:

8% extra, if applicable

Delivery:

45-60 days, after receipt of order.

Thank you for your continuing interest in our products. Please call me again (1-800-265-6681) if you require any further information.

Regards,

Dr. Walter Chudobiak Chief Engineer

WC:mf

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