



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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INSTRUCTIONS

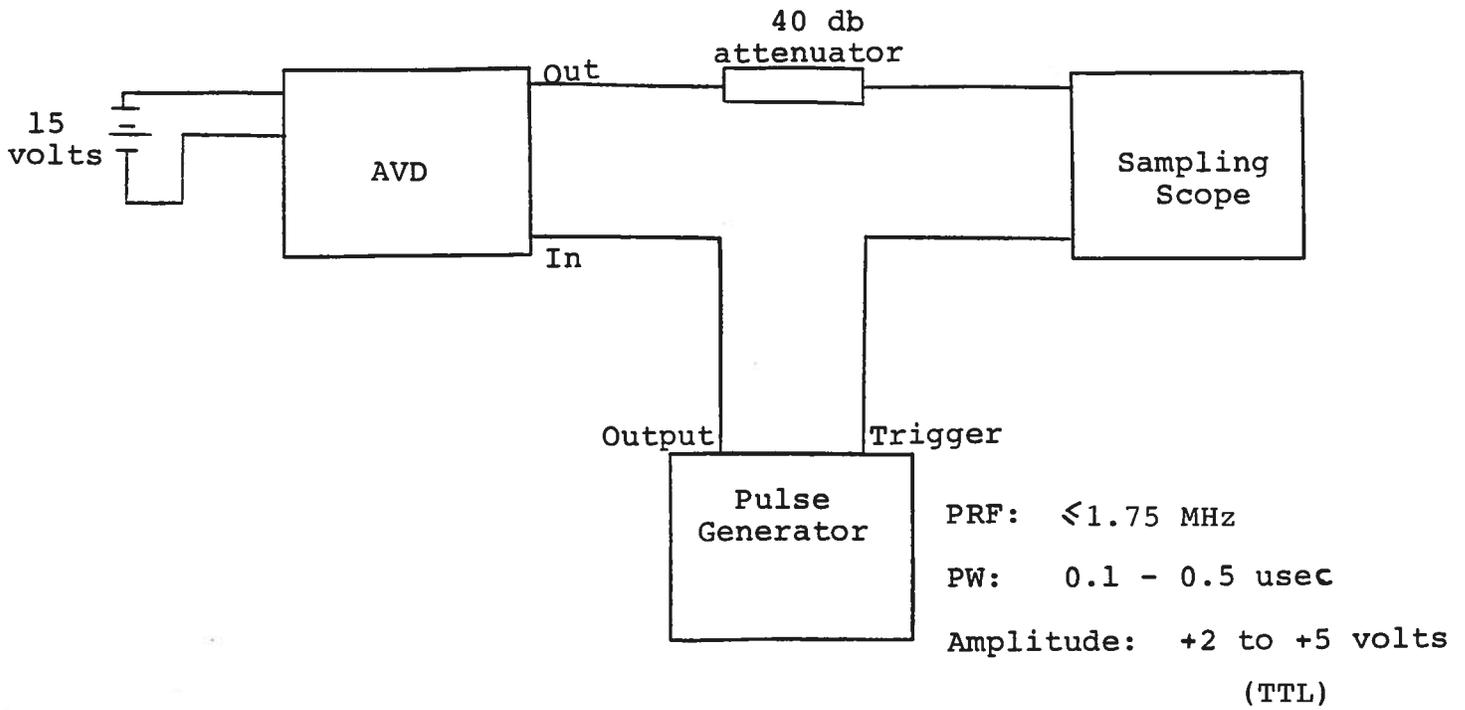
MODEL AVD-1300-TIA MONOCYCLE GENERATOR

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

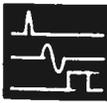


Notes:

- 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 40 ns (typically).
- 4) The monocycle generator can withstand an infinite VSWR on the output port.
- 5) The generator input circuit requires a TTL level trigger pulse (+3 to +5 Volts). The unit may be damaged if other than a TTL pulse is applied.
- 6) For additional assistance:

Tel: 613-226-5772

Fax: 613-226-2802



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Fax Ref No: 6829 From: Avtech Electrosystems Ltd.

To: Texas Instruments Our Fax No: (613) 226-2802

Date: January 20, 1994

Attn: Alex Gheno Receivers Fax No: 214-952-4275
Tel: 214-952-4982

Subject: Quotation No. of pages: 5

Following our recent phone conversation, I am pleased to provide a price and delivery quotation for a monocycle generator meeting the following specifications:

Model designation: AVD-1300-TIA

Output amplitude: 22 ± 2 volts

Output frequency: 1300 MHz
We do not believe we can measure the frequency accurately. Alternatively, we specify the period (in the time domain) as 750 ± 20 ps as shown in the attached sketch.

PRF: 0 to 1.75 MHz

Operating temperature range: 0° C to $+71^{\circ}$ C

Other: As per standard AVD-1300, pages 86 and 87 Cat. No. 8

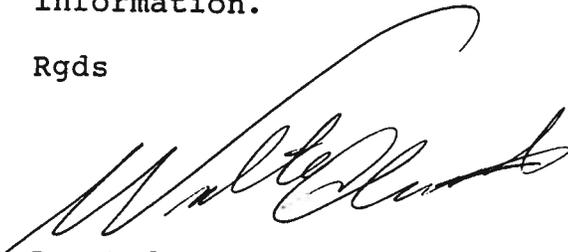
Price: \$1498.00 US each FOB destination

Delivery: 30 days ARO

I again emphasize that we can not provide the testing described in your Drawing 2700498.

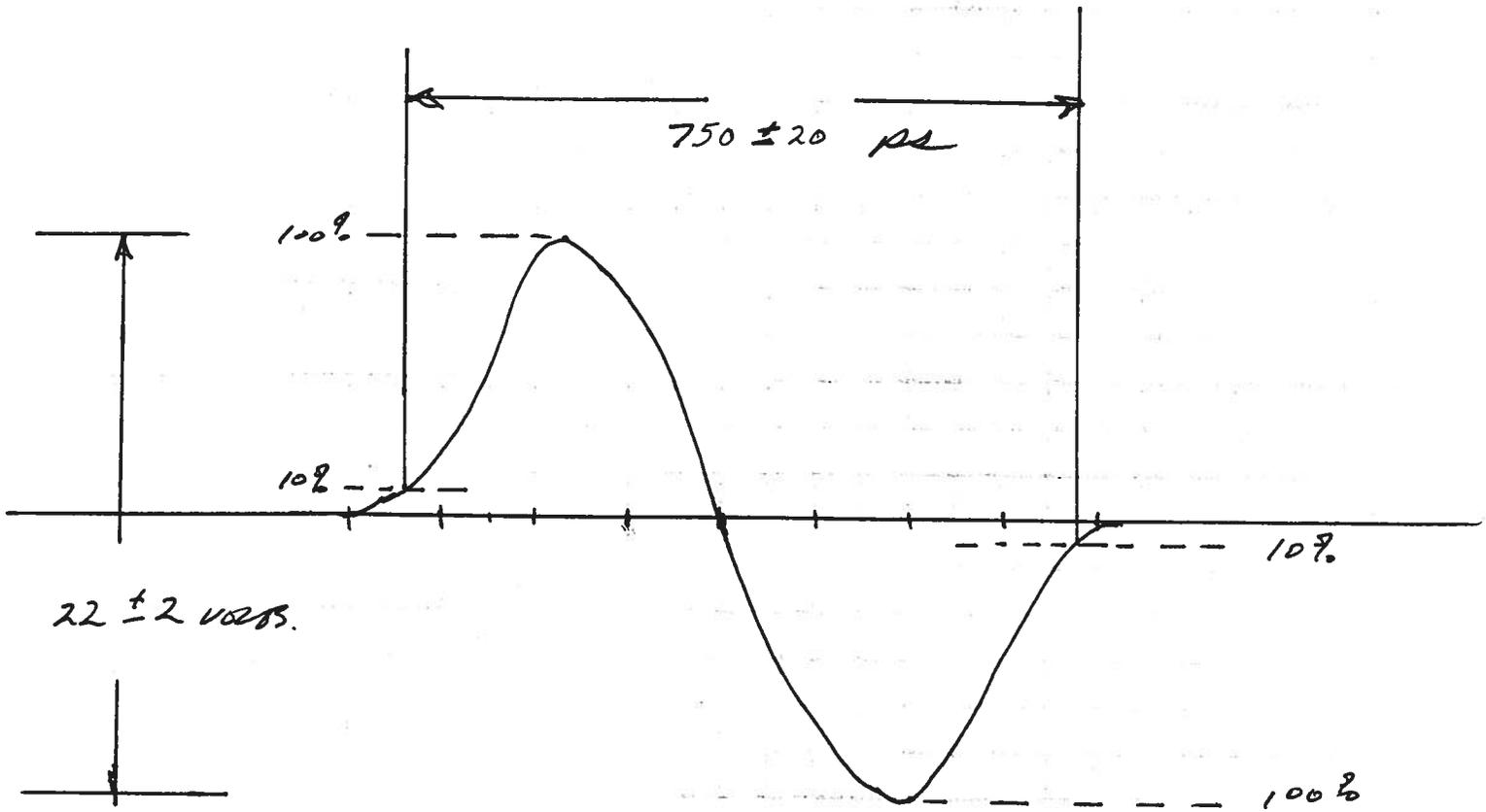
Thank you for your continuing interest in our products. Please call me again (1-800-265-6681) if you require any additional information.

Rgds

A handwritten signature in black ink, appearing to read 'Walter Chudobiak', written in a cursive style.

Dr. Walter Chudobiak
Chief Engineer

WC:dh



APD-1300-TIA OUT PUT
WAVEFORM

$$f^{-1} = 769 \text{ ps.}$$

April 27/94