AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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

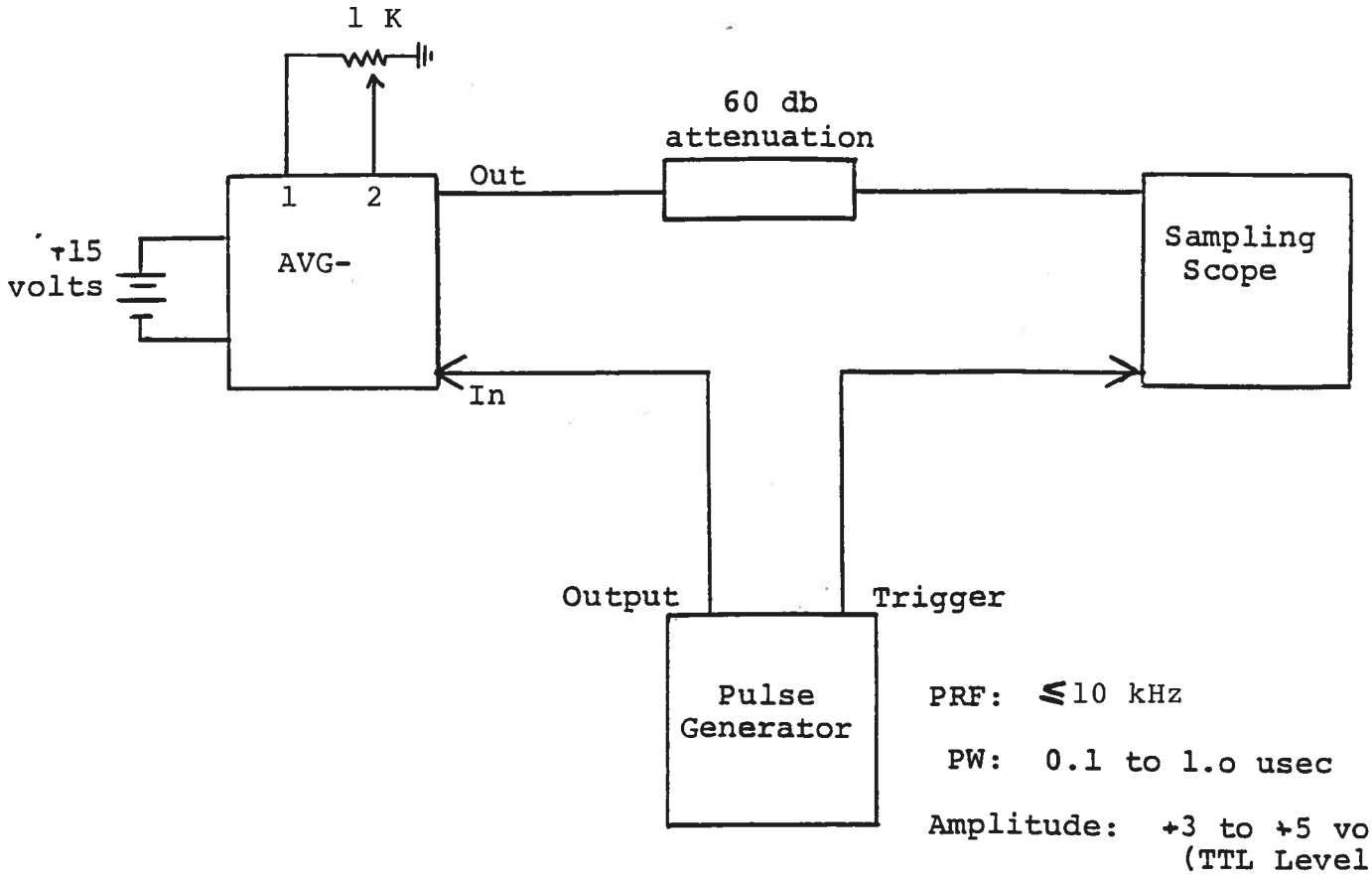
MODEL AVG-4A-COA IMPULSE GENERATOR

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 or liability assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

IMPULSE GENERATOR TEST ARRANGEMENT



Notes:

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.

3) In general, the pulse generator trigger delay control should be set in the 100 ns range. Other settings should be as shown in the above diagram. The impulse generator output is delayed with respect to the trigger input signal by about 70 ns (typically).

4) The impulse generator can withstand an infinite VSWR on the output port.

5) The output amplitude is controlled by the user supplied one turn 1K AMP pot control which connects between PINS 1, 2 and ground.

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Fax Ref No: 6499 From: Avtech Electrosystems Ltd

To: Conoptics Inc. Our Fax No: (613) 226-2802

Date: Sept. 15, 1993

Attn: Bob Enscoe Receivers Fax No: 203-790-6145

Subject: AVG-4A-P Spurious No. of pages: 3

1) I enclose some test waveforms for a standard model AVG-4A-P (650 Volts, 5 ns PW at 20%). The spurious at 13 ns after the main peak is 0.1 division versus a peak of 6.5 division. Consequently, we conclude that we can meet your specification for a spurious of less than 4%. I am pleased to quote as follows:

Model designation:	AVG-4A-P-COA.
Output amplitude:	100 to +650 Volts (user-supplied one turn control attaches to solder terminals).
Output pulse width:	7 ns.
Rise, fall time:	3 ns.
Spurious:	$\leq$ 4% for t > 13 ns after main impulse.
PRF:	0 to 10 kHz.
Package size:	1.7 x 2.6 x 4.3".
Prime power:	+15 Volts, 500 mA. Unit should be attached to a heat sink.
Price:	$2,495.00 US each, FOB destination.
Delivery:	30-45 days.

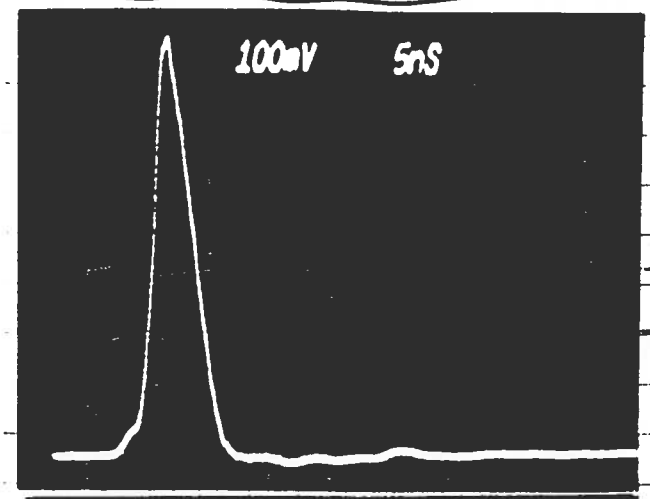
My apologies for this late reply to your query.

Rgds

Dr. Walter Chudobiak
Chief Engineer

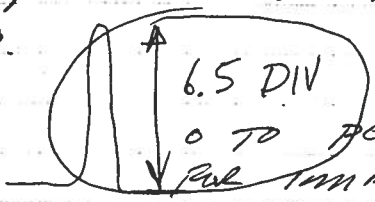
WC:pr

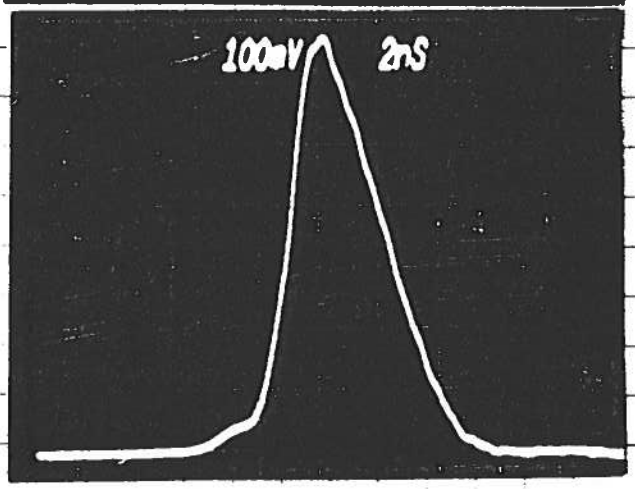
AV6-4AP WAVEFORMS



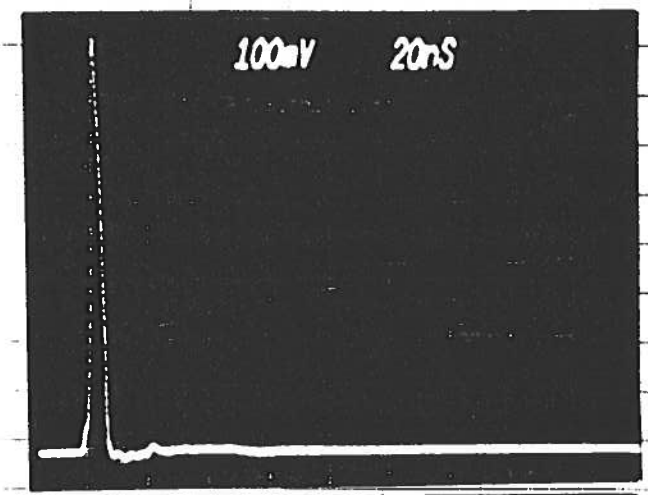
(A) 100 VOLTS/DIV
(60 db ATTEN
PRF = 20 KHz)

100 VOLTS

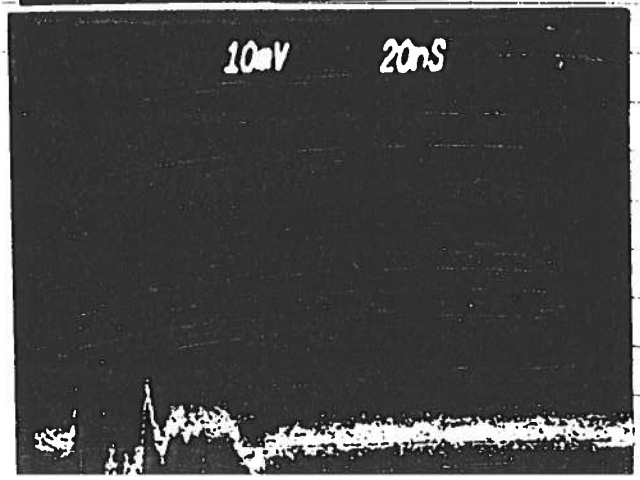




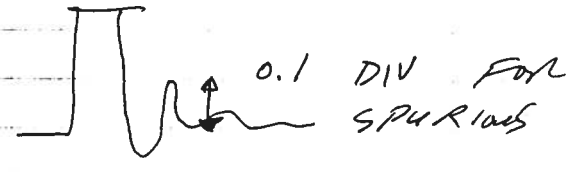
(B) AS (A) BUT 2 n.



(C) AS (B) BUT 20 n



(D) AS (C) BUT
10 VOLTS/DIV.



Nov. 11/93