



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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INSTRUCTIONS

MODEL AVG-3B-PTD 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 disassembled, 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

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TABLE OF CONTENTS

WARRANTY 2

TABLE OF CONTENTS 3

FIG. 1: IMPULSE GENERATOR TEST ARRANGEMENT 4

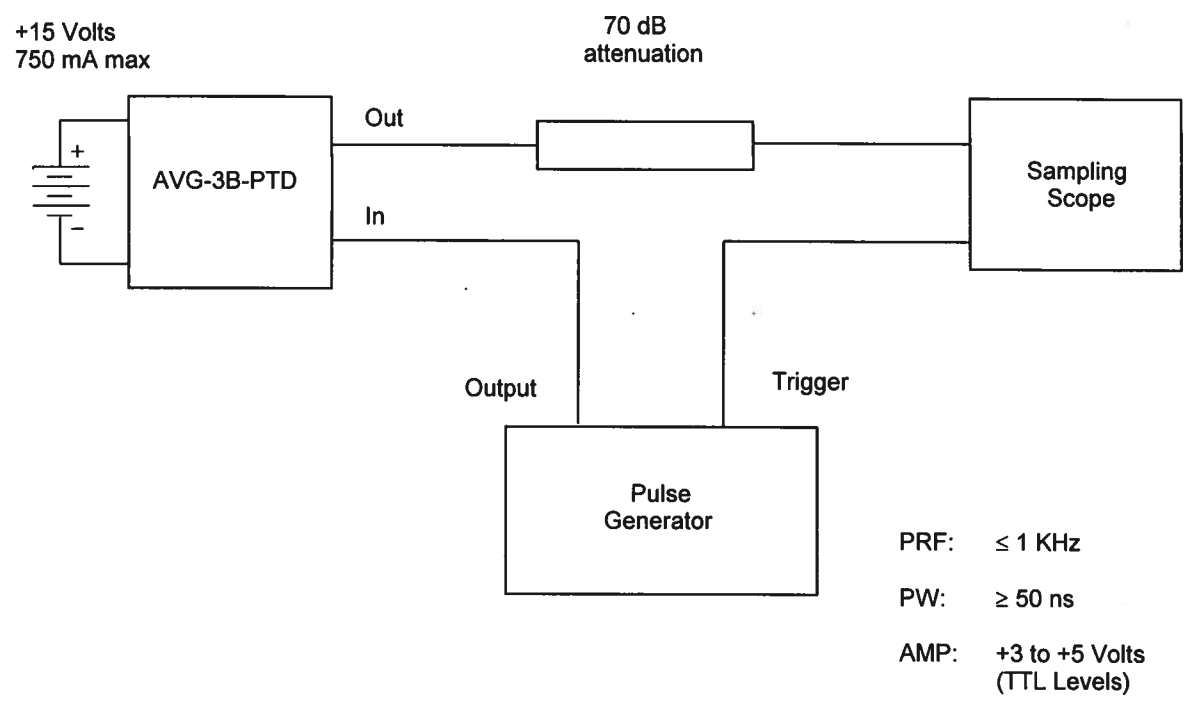
GENERAL OPERATING INSTRUCTIONS 5

PERFORMANCE CHECK SHEET 6

ORIGINAL QUOTATION 7

Manual Reference: Q:\office\instructword\Avg\AVG-3B-PTD.doc, created August 11, 2000

FIG. 1: IMPULSE GENERATOR TEST ARRANGEMENT



GENERAL OPERATING INSTRUCTIONS

- 1) The bandwidth capability of components and instruments used to display the impulse generator output signal (attenuators, cables, connectors, etc.) should exceed 1.0 gigahertz.
- 2) The use of 70 dB attenuation will insure a peak input signal to the sampling scope of less than one Volt. **CAUTION:** Insure that the input attenuator can withstand a peak voltage of 900 Volts (this is unusually high).
- 3) **CAUTION:** The unit should be bolted to a heat sink capable of dissipating at least 10 Watts. Apply heat sink grease on the mounting surfaces. The propagation delay time will drift if the chassis heats significantly.
- 4) 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 58 ns. The propagation delay characteristics were matched to those for Model AVG-3B-PTB.
- 5) The AVG-3B has a warm up time of less than one minute.
- 6) The impulse generator can withstand an infinite VSWR on the output port.
- 7) The output amplitude may be varied from +350 to +900 Volts using the one turn control.
- 8) For additional assistance:

Tel: (613) 226-5772

Fax: (613) 226-2802

Email: info@avtechpulse.com

PERFORMANCE CHECK SHEET



AVTECH ELECTROSYSTEMS LTD. 7
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Quote No:	<u>9754</u>	Sender's Fax:	<u>613-226-2802</u>
File:	<u>Q:\office\QUOTES\Q9754.doc</u>	Receiver's Fax:	<u>914-732-9761</u>
To:	<u>Profile Technologies</u>	Receiver's Phone:	<u>914-732-9713</u>
	<u>Pearl River, NY</u>	Date:	<u>March 2, 2000</u>
Attn:	<u>Dr. John T. Kuo</u>	Number of pages:	<u>1, including cover</u>
Subject:	<u>900 Volt Unit</u>		

1) We are pleased to quote as follows:

Quote Number:	9754
Model Designation:	AVG-3B-PTD
Output Amplitude:	+350 to +900 Volts
Pulse Width:	≤ 3.5 ns
Propagation Delay and Stability:	Same as 9016 and 9017, Model AVG-3B-PTB
Other:	See Model AVG-3B
Price, Quantity of 1:	\$3,798.00 US, FOB destination.
Price, Quantity of 4:	\$3,298.00 US, each, FOB destination
Delivery:	60 days, after receipt of order.

Regards,

[Signature]
Dr. Walter Chudobiak
Chief Engineer

WC:mf

DR Kuo:
WE CAN PROVIDE
THE FIRST TWO
UNITS AT
\$3540.00 US EACH!
READ
[Signature]