



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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INSTRUCTIONS

MODEL AVP-HV3-GEO3 PULSE 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

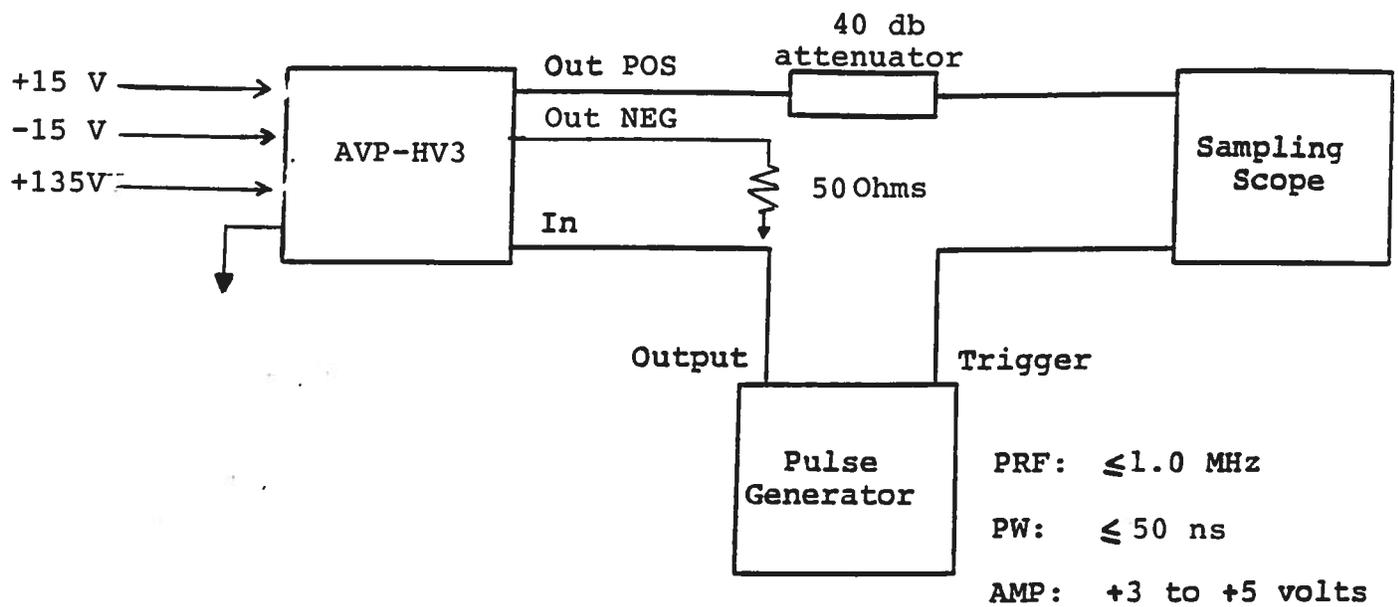
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Manual Reference: \\SNAPDISK\DRIVE1\office\instructword\Avp\AVP-HV3-GEO3.doc, created June 14, 1999

FIG. 1: AVP-HV3 PULSE 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 ten gigahertz.
- 2) The use of 40 dB attenuator will insure a peak input signal to the sampling scope of less than one volt.
- 3) **WARNING:** Model AVP-HV3 may fail if triggered at a PRF greater than 1.0 MHz.
- 4) The output rise time is partially controlled by the ten turn T_R trim pot on the side of the unit. The fall time and pulse width are partially controlled by the ten turn T_F trim pot.
- 5) The POS and NEG outputs must both be terminated in 50 Ohm loads.
- 6) For additional assistance:

Tel: (613) 226-5772

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Fax No:	<u>4411</u>	Sender's Fax:	<u>613-226-2802</u>
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To:	<u>Geo-Centers Inc.</u> <u>Newton Center, MA</u>	Receiver's Phone:	<u>617-964-7070</u>
Attn:	<u>John Grant</u>	Date:	<u>April 19, 1999</u>
Subject:	<u>Price and delivery quotation</u>	Number of pages:	<u>3</u>

Following our telephone conversation of April 6th, I am pleased to quote as follows:

Quote Number:	9300
Model designation:	AVP-HV3-GEO3
No. of outputs:	Two, differential outputs
Output amplitudes:	+20 Volts and -20 Volts (fixed).
Pulse width:	≤ 350 ps (fixed). See enclosed prototype waveform.
Rise time:	≤ 100 ps
Fall time:	≤ 200 ps
PRF:	0 to 1 MHz. Specifically designed to operate at 100 kHz to 1 MHz
Input trigger:	TTL, PW > 50 ns
Propagation delay:	≈ 40 ns
Jitter:	± 15 ps
Relative delay matching: (P & N outputs)	≤ ± 5 ps Passive power splitter used to provide exceptional stability.
Temperature range:	0°C to +40°C.

Prime power: a) +15 Volts, ($\pm 0.5V$) 100 mA
b) -15 Volts, ($\pm 0.5V$) 100 mA
c) +135 Volts ($\pm 5V$) 4 mA

Chassis size: 1.7" x 2.6" x 4.3"

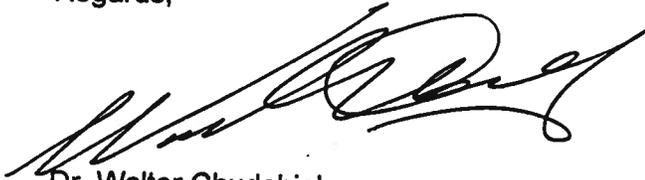
Connectors: Out: SMA
In: Solder terminal
DC: Solder terminal

Price: Quantity of 1: \$2,098.00 US
Quantity of 2: \$1,498.00 US each
Quantity of 3 to 5: \$1,198.00 US each

Delivery: 60 days, after receipt of order (FOB destination)

Thank you for your continuing interest in our products. Please do not hesitate to contact me (1-800-265-6681) if you require any further information.

Regards,



Dr. Walter Chudobiak
Chief Engineer

WC:cb