

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS SINCE 1975

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INSTRUCTIONS

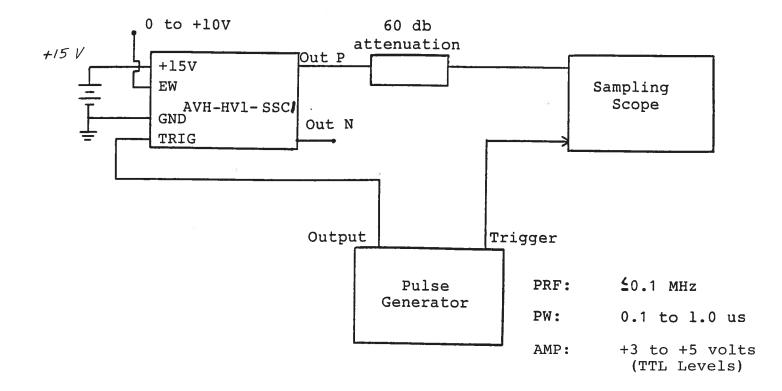
MODEL AVH-HV1-PN-SSC1 IMPULSE GENERATOR

S.N.:

WARRANTY

products of Electrosystems Ltd. warrants in material manufacture to be free from defects 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 This warranty does not apply to units said defective item. been dissembled, modified or subjected to which have applicable specifications or exceeding the conditions 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:

- The bandwidth capability of components and instruments used to display the impulse generator output signal (attenuators, cables, connectors, etc.) should exceed ten gigahertz.
- The use of 60 db attenuation 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 nsec. 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 30 nsec (typically).
- 4) The delay of the N channel with respect to the P channel may be varied by about ±100 ps by means of a 10 turn trim pot which is accessible via a hole in the side of the chassis.
- 5) The output pulse width may be varied from about 600 ps to 2.0 ns by varying the potential at the EW terminal from 0 to +10 volts ($R_{IN} > 10K$).
- 6) The impulse generator can withstand an infinite VSWR on the output port.

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NANOSECOND WAVEFORM ELECTRONICS ENGINEERING - MANUFACTURING

P.O. BOX 265 **OGDENSBURG NEW YORK** 13669 (315) 472-5270

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

Fax No:	4787	Our Fax No:	613-226-2802
To:	Sensors and Software	Your Ref No:	
		Our Ref:	
Attn:	David Leggatt	Date:	Jan. 13, 1992
From:	Tel: 416-624-8909 Avtech Electrosystems Ltd.	Receivers Fax No:	416-624-9365
Subject:	Impulse Generator Quote	No. pages faxed:	3

With reference to our January 10th telephone conversation, I am pleased to provide the following price and delivery quotation:

Model designation:

AVH-HV1-PN-SSC1.

Function:

Simultaneous +100 and -100 volt impulse outputs (to 50 ohms). Pulse width variable from 2 ns to 0.6 ns via 0 to +10 volt control voltage.

Output amplitude:

+100 and -100 volts (fixed).

Output pulse width:

Variable from 0.6 ns to 2.0 ns.

Rise time:

Approx. 250 ps (fixed).

Fall time:

Varies from 250 ps to 1.7 ns.

PRF:

0 to 100 KHz.

Propagation delay:

 \leq 50 ns.

Jitter:

+15 ps.

Trigger required:

+5 volts, 50 to 500 ns (TTL). Include filtering on input line. Prime power:

JET.

+15 volts, 350 mA.

Input connectors:

Solder terminals.

Output connectors:

SMA (slip on, Omni Spectra Part

No. 4503-7985-00).

Package size:

4 cm x 7.7 cm x 21.4 cm (1.57" x 3" x 8.4").

See enclosed sketch. Revised drawing of mounting hole and connector posi-

tions to follow.

Package material:

Aluminum.

Price:

\$1,595.00 US each, FOB destination

(quantity of 10 to 15).

PST:

Extra if applicable.

GST:

7% extra.

Delivery:

45 to 90 days ARO.

Thank you for your continuing interest in our products. Please do not hesitate to contact me if you require any additional information or modifications to the above specifications.

Rqds

Walter J. Chudobiak

Chief Engineer

WJC:pr