AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
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INSTRUCTIONS

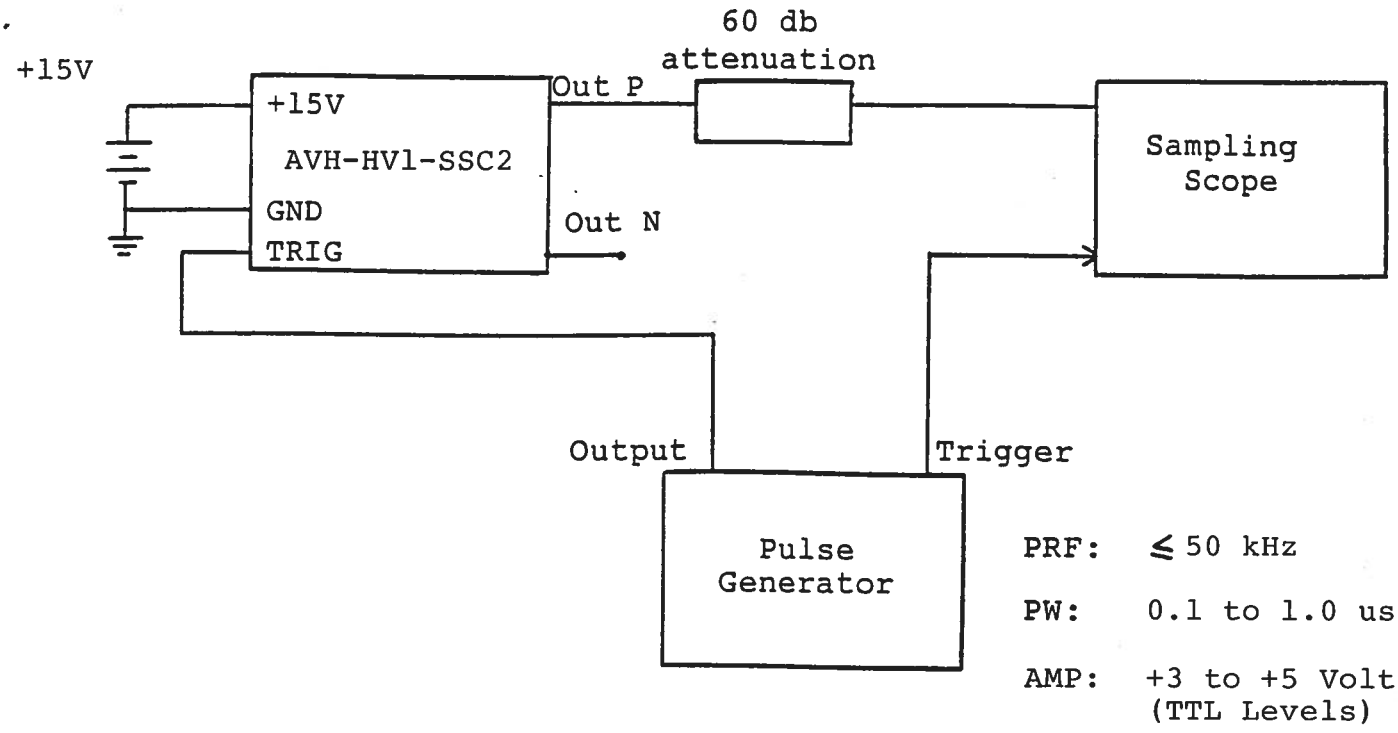
MODEL AVH-HV1-PN-SSC2 IMPULSE GENERATOR

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 impulse generator output signal (attenuators, cables, connectors, etc.) should exceed ten gigahertz.

2) 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 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 60 ns (typically).

4) The propagation delays of the P and N channels (with respect to the TRIGGER PULSE) may be varied by about ± 2 ns by means of two 10 turn trim pots which are accessible via a hole in the side of the chassis. Clockwise rotation of the pots increases the propagation delay. Only very minor adjustments to the pots should be necessary.

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

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Fax Ref No: 6525

From: Avtech Electrosystems Ltd

To: Sensors and Software

Our Fax No: (613) 226-2802

Date: September 23, 199

Attn: David Leggatt
Tel: 416-624-8909

Receivers Fax No: 416-624-9365

Subject: Impulse Generator Quote

No. of pages: 3

With reference to our September 22nd telephone conversation, I am pleased to provide the following price and delivery quotation:

Model designation:	AVH-HV1-PN-SSC2.
Function:	Simultaneous +230 and -230 Volt impulse outputs (to 50 Ohms).
Output amplitude:	+230 and -230 Volts (fixed).
Output pulse width:	Approx. 15 ns.
Rise time:	Approx. 1 ns (fixed).
Fall time:	Approx. 14 ns.
PRF:	0 to 50 kHz.
Propagation delay:	$\leq$ 50 ns.
Jitter:	$\pm$15 ps.
Trigger required:	+5 Volts, 50 to 500 ns (TTL). Include filtering on input line.
Prime power:	+15 Volts, 350 mA.
Input connectors:	Solder terminals.

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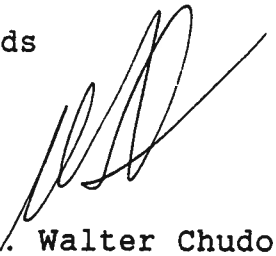
Output connectors:	SMA (slip on, Omni Spectra Part No. 4503-7985-00).
Package size:	4 cm x 7.7 cm x 21.4 cm (1.57" x 3" x 8.4").
	Same package as AVH-HV1-PN-SSC1.
Package material:	Aluminum.
Price:	$1,395.00 US each, FOB destination (quantity of 1).
PST:	Extra if applicable.
GST:	7% extra.
Delivery:	30 to 45 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.

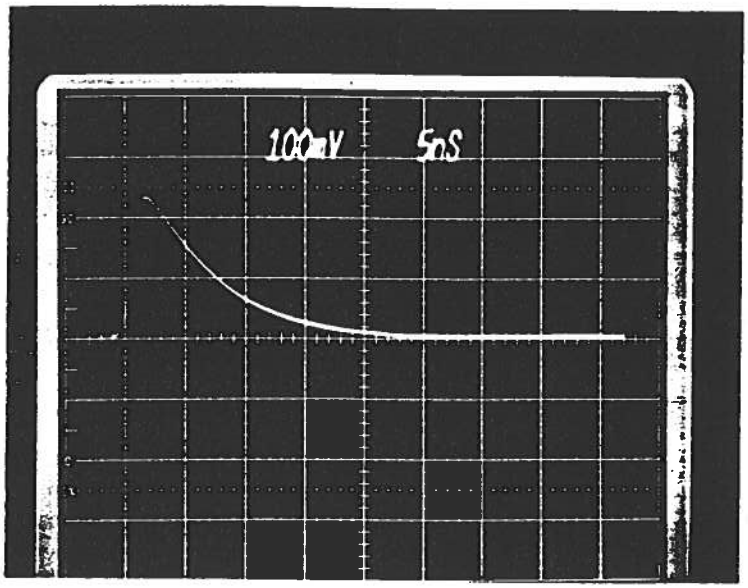
Rgds



Dr. Walter Chudobiak
Chief Engineer

WC:pr

MH-IN1-PN-SSC2 (PROTO 1)

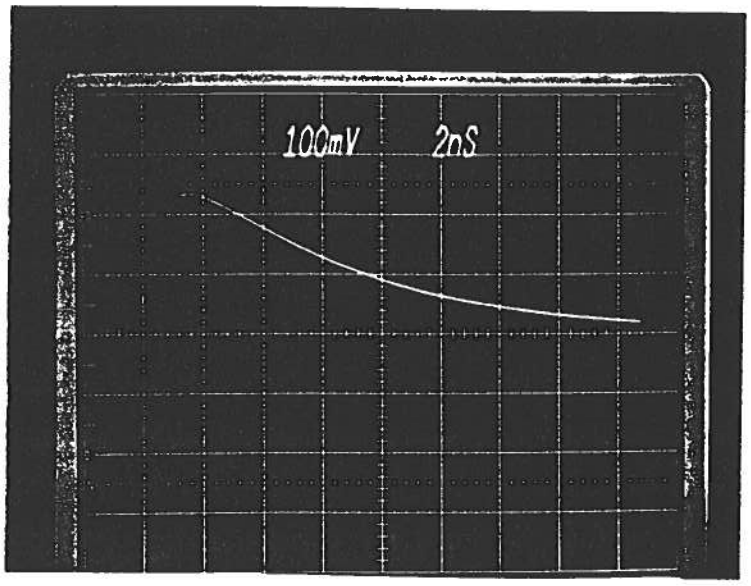


(A)

Pout

100 VOLTS/DIV

PRF = 30 KHz



(B) AS (A)

BUT 2 NS/DIV

Sept 22 9

Nov. 3/93