



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

□ P.O. BOX 265
OGDENSBURG, NY
U.S.A. 13669-0265
TEL: (315) 472-5270
FAX: (613) 226-2802

TEL: 1-800-265-6681
FAX: 1-800-561-1970

e-mail: info@avtechpulse.com
<http://www.avtechpulse.com>

□ P.O. BOX 5120 STN. F
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

INSTRUCTIONS

**MODEL AVH-MPT-EGG1E IMPULSE GENERATOR
(with Low-Drift MOD 1)**

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

World Wide Web: <http://www.avtechpulse.com>

TABLE OF CONTENTS

WARRANTY 2

TABLE OF CONTENTS 3

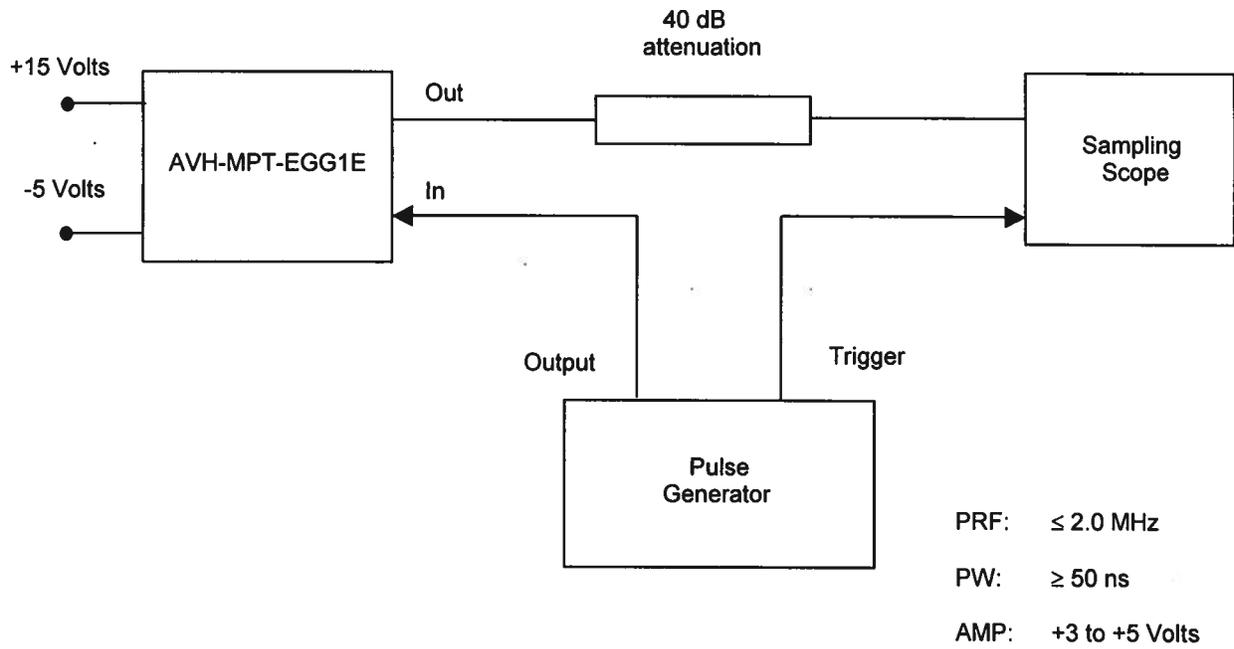
FIG. 1: IMPULSE GENERATOR TEST ARRANGEMENT 4

GENERAL OPERATING INSTRUCTIONS 5

ORIGINAL QUOTATION 6

PERFORMANCE CHECK SHEET 8

Manual Reference: Q:\office\instructword\Avh\AVH-MPT-EGG1Eedb-fig.doc, created August 16, 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 ten gigahertz.
- 2) The module should be screwed to a heat sink capable of dissipating at least 3 Watts. Tapped 2-56 holes are provided on the bottom surface of the unit. Heat sink grease should be placed between the chassis and the heat sink.
- 3) The use of 40 db attenuation will insure a peak input signal to the sampling scope of less than one volt.
- 4) This unit normally provides a 100 ps rise time but this may be increased to 250 ps by reducing the -5 Volt bias supply to 0 Volts.
- 5) 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.
- 6) The impulse generator can withstand an infinite VSWR on the output port.
- 7) For additional assistance:

Call: 613-226-5772
Fax: 613-226-2802
Email: info@avtechpulse.com

ORIGINAL QUOTATION



AVTECH ELECTROSYSTEMS LTD. 6

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

P.O. BOX 265
OGDENSBURG, NY
U.S.A. 13669-0265
TEL: (315) 472-5270
FAX: (613) 226-2802

TEL: 1-800-265-6681
FAX: 1-800-561-1970

e-mail: info@avtechpulse.com
http://www.avtechpulse.com

P.O. BOX 5120 STN. F
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

Quote No:	<u>9819</u>	Sender's Fax:	<u>613-226-2802</u>
File:	<u>R:\QUOTES\Q9819.doc</u>	Receiver's Fax:	<u>505-998-0671</u>
To:	<u>EG&G</u>	Receiver's Phone:	<u>505-998-0677</u>
	<u>Albuquerque, NM</u>	Date:	<u>April 7, 2000</u>
Attn:	<u>John Eberly</u>	Number of pages:	<u>3, including cover</u>
Subject:	<u>Price and delivery quotation</u>		

Following our recent telephone conversations, I am pleased to provide the following revised quotation:

Quote Number:	9819
Model designation:	AVH-MPT-EGG1E
Output Amplitude: (to 50 Ohms)	+10 Volts (Fixed)
Rise Time:	100 ps (see enclosed prototype waveform)
Fall Time:	3 ns
Pulse Width (FWHM):	≈ 1.5 ns (Fixed)
PRF:	0 to 2 MHz
Backmatched:	Yes
Size:	1.1" x 1.3" x 2.3"
Prime Power:	a) +15 VDC, (± 1 Volt), 210 mA at 2 MHz b) -5 VDC, 10 mA
Temperature Range:	-10°C to +50°C
Propagation Delay Variation:	Reduced by a factor of 4 relative to Model AVH-MPT-EGG1A
Connectors:	SMA
Other:	See Model AVH-MPT, page 80

Aug 16/2000