

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVO-3A-B-DN-17A*

S.N.: *9166*

Date: *APRIL 6 2000*

- a) Output signal amplitude:
0 TO ± 40 V TO $R_L \geq 0.5 \Omega$
(50 AMPS MAX)
- b) Pulse width:
2 μ S TO DC
- c) Rise time:
 $\leq 0.5 \mu$ S
- d) Fall time:
 $\leq 0.5 \mu$ S
- e) PRF:
2 TO 1 KHz
- f) Jitter, stability:
OK
- g) Prime power:
 - a) *120/240 V,*
50-60 Hz
 - b) *0 TO ± 40 VDC*
50 AMP MAX.

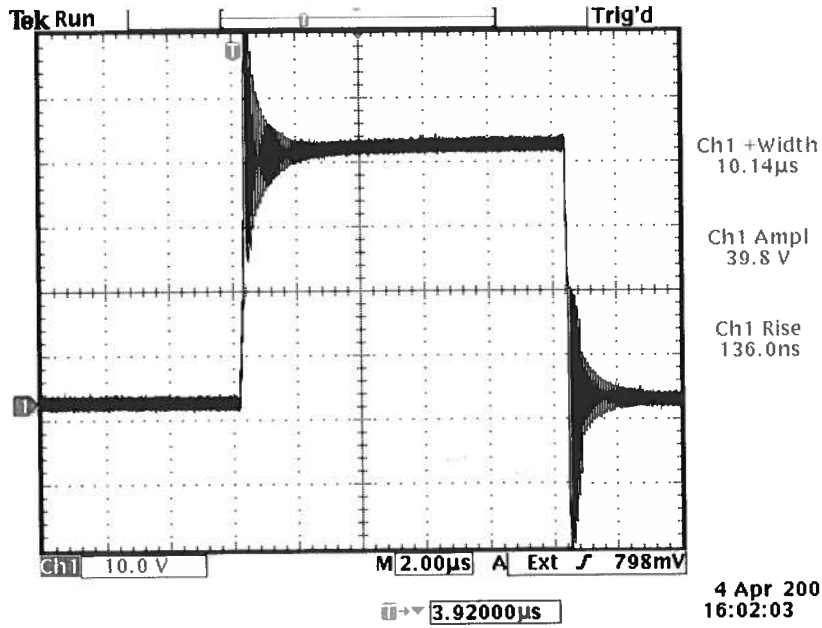


PLP-P

NARROW PULSE

$$R_c = 0.3 \Omega$$

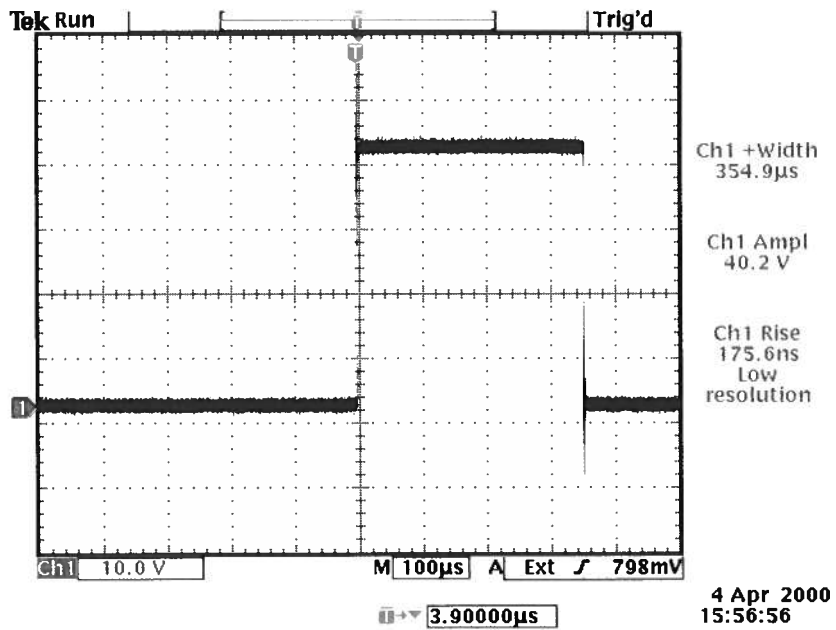
WITH 1464 L.



PG-P

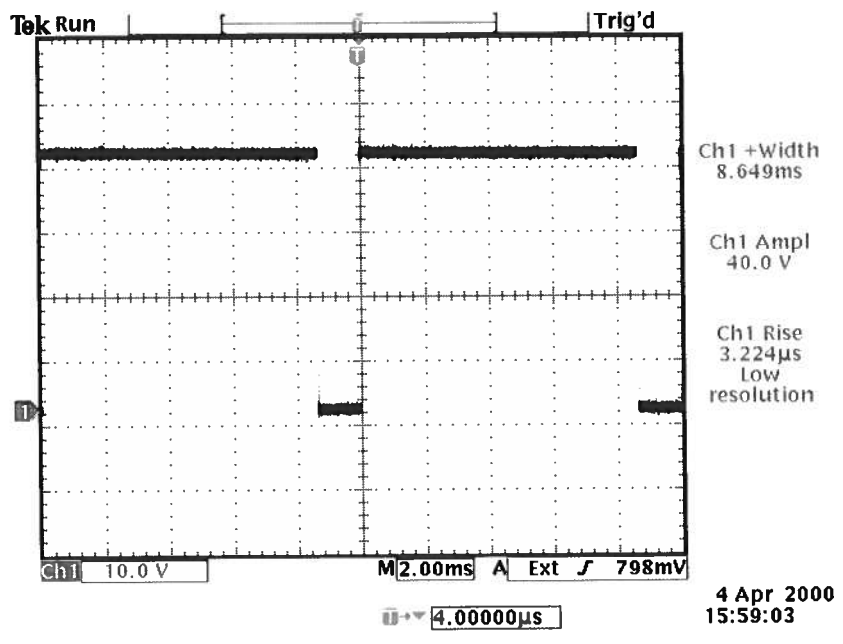
LOW DUTY CYCLE

$$R_c = 0.8 \Omega$$



PG-P
HIGH DUTY CYCLE

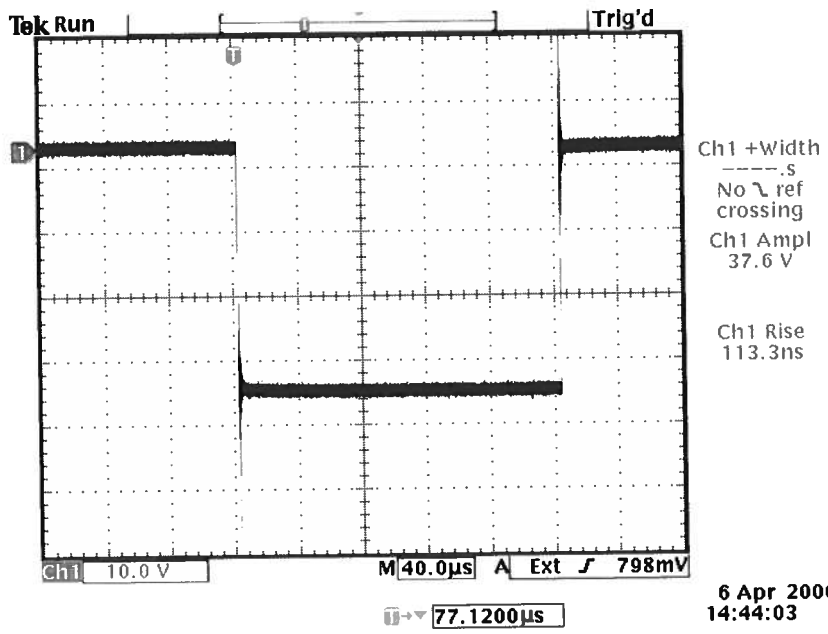
$R_L \approx 0.5 \text{ ohm}$



PG-N

$$R_c = 0.8 \Omega$$

with hold L.





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

"-B" Functional Test & Calibration Certificate

| | | | | | | |
|---------------------------------------|-----------------|----------|------------|------------------------|----------------------|-----|
| Date of test: | April 6, 2000 | | | | Tester: | MJC |
| Programmed model name: | AVO-8A-B-PN-HA1 | | | | | |
| Programmed serial number: | 9166 | | | | | |
| Firmware revision: | 2.11 | | | | | |
| Internal trigger checked at: | 1 Hz | 10 Hz | 100 Hz | 1 kHz | | |
| Actual measured output ¹ : | 1.007 Hz | 10.07 Hz | 100.6 Hz | 1.005 kHz | | |
| External trigger checked: | yes | | | Gate checked: | yes | |
| Trigger load resistor present: | yes | | | | | |
| Manual trigger checked: | yes | | | | | |
| Pulse compression checked: | yes | | | | | |
| Pulse width checked at: | 2 us | 200 us | 20 ms | 1 s | at TTL trigger point | |
| Actual measured output ² : | 2.02 us | 201.6 us | 20.1 ms | 1.00 s | | |
| PWin = PWout mode checked: | yes | | | DC mode checked: | yes | |
| Duty Cycle Limit: | 100% | | | | | |
| Delay nulled: | N/A | | | | | |
| Delay checked at: | 2 us | 200 us | 20 ms | 1 s | at TTL trigger point | |
| Actual measured output ¹ : | 2.00 us | 201.3 us | 20.1 ms | 0.993 s | | |
| Double pulse checked: | N/A | | | | | |
| Invert mode checked: | N/A | | | | | |
| ECL/TTL modes checked: | N/A | | | | | |
| Zout switch checked: | N/A | | | | | |
| Amplitude checked at: | N/A | | | | | |
| Actual measured output ² : | N/A | | | | | |
| Amplitude polarity: | +/- | | | | | |
| Zout calibration: | N/A | | | | | |
| Electronic amplitude control: | N/A | | | | | |
| External amplify mode: | N/A | | | | | |
| Ultraviolet flux removed: | N/A | | | | | |
| Monitor V/I Ratio: | N/A | | | Monitor offset nulled: | | |
| LCD Monitor calibrated: | N/A | | | Monitor offset nulled: | | |
| Mon. Single Pulse/Min PW OK: | N/A | | | SHA Cap: | | |
| Offset checked at: | N/A | | | | | |
| Actual measured output ² : | N/A | | | | | |
| Offset nulled (output on): | N/A | | | | | |
| Offset nulled (output off): | N/A | | | | | |
| RS-232 checked: | yes | | | | | |
| Sync pulse width checked: | 200 ns | | | | | |
| Circuit Boards: | PS: | 93 | Main: | 108 | | |
| Overload Trigger Resistance: | Trips at: | N/A | Installed: | N/A | | |
| DC fuses: | Positive: | N/A | Negative: | N/A | | |
| AC Current at 115 VAC: | Quiescent: | 0.41A | Max. Load: | N/A | | |
| AC fuse: | 1A | | | | | |
| Photographed: | yes | | | | | |

¹ Checked with: HP5370A Universal Time Interval Counter

² Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.