

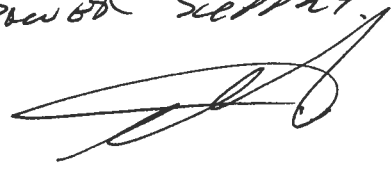
PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVD-8C-B-P-M*

S.N.: *11033*

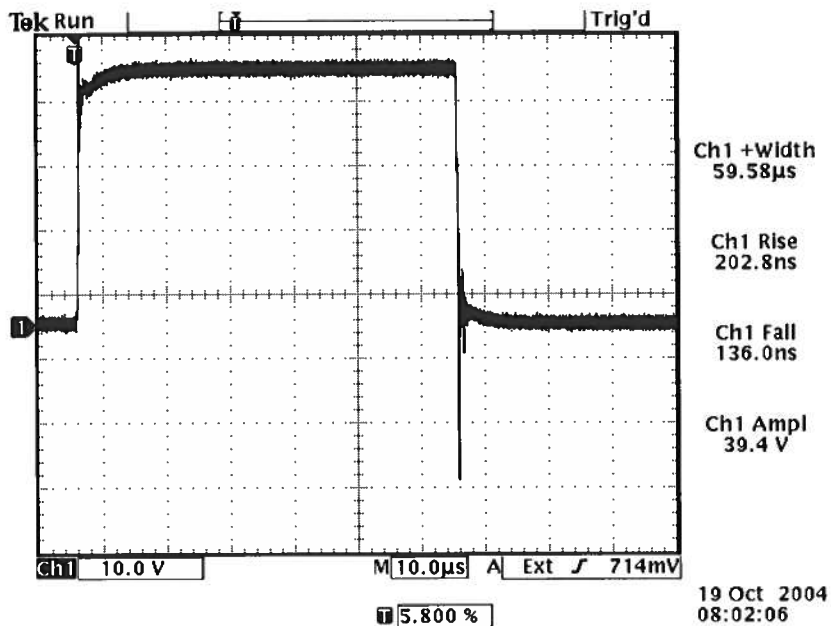
Date: *OCT 19 2004*

- a) Output signal amplitude:
0 TO +40 V TO $R_L \geq 0.2 \Omega$
- b) Pulse width:
(200 AMP MAX)
2 μ S TO 20 MS.
- c) Rise time:
 $\leq 1.0 \mu$ S
- d) Fall time:
 $\leq 1.0 \mu$ S
- e) PRF:
0 TO 1 KHz
- f) Jitter, stability:
OK
- g) Prime power:
 - a) *120/240V, 50-60 Hz.*
 - b) *0 TO +40 VDC*
100 AMP LAB
POWER SUPPLY.



(A)

11033



NARROW PULSE

$R_L \approx 0.2 \Omega$

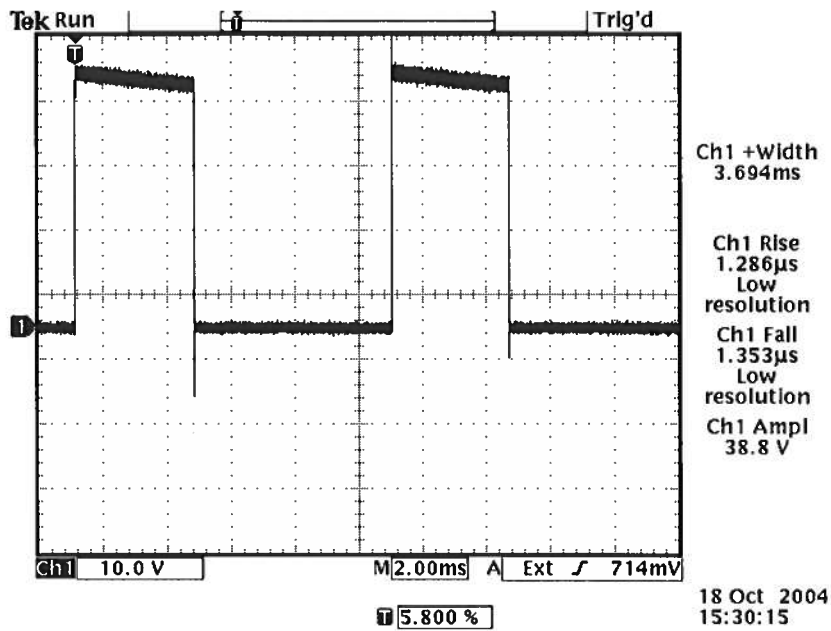
LOAD VOLTAGE

$V_{OC} = 40 \text{ VOLTS}$

$PAF = 100 \text{ W}$

(B)

11033



WIDE PULSE HIGH DUTY CYCLE

$$R_L = 0.2 \Omega$$

$$V_{DC} \approx 40 \text{ VOLT}$$

LOAD VOLTAGE



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"-B" Functional Test & Calibration Certificate

| | | | | | | |
|--|---------------------------|------------------------------|------------------------|------------------------------|-------------------------------------|-----|
| Date of test: | October 18, 2004 | | | | Tester: | MJC |
| Programmed model name: | AVO-8C-B-P-M | | | | | |
| Programmed serial number: | 11033 | MAC address: | N/A | | | |
| Firmware revision: | 2.59 | | | | | |
| Internal trigger checked at: | 1 Hz | 10 Hz | 100 Hz | 1 kHz | | |
| Actual measured output ¹ : | 1.010 Hz | 10.06 Hz | 100.5 Hz | 1.004 kHz | | |
| External trigger checked: | Yes | | | | Gate checked: | Yes |
| Manual trigger checked: | Yes | | | | | |
| Pulse compression checked: | Yes | | | | Low Amplitude PW Distortion Nulled: | N/A |
| Pulse width checked at: | 2 us | 20 us | 200 us | 2 ms | 1 Hz, +40V to 0.2 Ohms | |
| Actual measured output ² : | 2.001 us | 20.2 us | 201.4 us | 2.011 ms | | |
| PWin = PWout mode checked: | Yes | | | | DC mode checked: | Yes |
| Duty Cycle Limit: | N/A | | | | | |
| Delay nulled: | Yes, at TTL trigger point | | | | | |
| Delay checked at: | 200 ns | 20 us | 200 us | 2 ms | at TTL trigger point | |
| Actual measured output ¹ : | 201 ns | 20.2 us | 201.3 us | 2.012 ms | | |
| 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 | | | | | |
| Bleeder resistors adequate: | N/A | | | | | |
| Burst mode: | N/A | | | | | |
| Monitor V/I Ratio: | 1V / 100A | | Monitor offset nulled: | Yes | | |
| LCD Monitor calibrated: | Yes | | | | | |
| Offset checked at: | N/A | | | | | |
| Actual measured output ² : | N/A | | | | | |
| Offset nulled (output on): | N/A | | | | Amplitude-dependent offset nulled: | |
| Offset nulled (output off): | N/A | | | | | |
| RS-232 checked: | Yes | | | | | |
| LCD pull-ups installed: | Yes | | | | | |
| PCB 108H oscillator buffer resistor: | N/A | | | | | |
| PN trigger pull-downs installed: | N/A | | | | | |
| Sync pulse width checked: | 200 ns nominal | | | | | |
| Circuit Boards: | PS: | 93 | Main: | 108E | | |
| Overload Trigger Resistance: | Trips at: | N/A | Installed: | N/A | | |
| DC fuses: | Main: | N/A | Overload: | N/A | | |
| AC Current: | Quiescent: | 0.42A @ 115V 0.21A @ 230V | Max. Load: | 0.43A @ 115V 0.21A @ 230V | | |
| AC fuse: | 1A (for 115V) | | | | | |
| 1.5 kV _{RMS} , 5s, switch on, Hypot Test: | OK | | | | | |
| 25A RMS Ground Continuity Test: | OK | | | | | |
| Fan operational: | Yes (2) | | | | | |
| Photographed: | Yes | | | | | |

¹ Checked with: Fluke PM6681 Counter (S/N 9446 066 81016), referenced to Datum ExacTime 9390-6000 (S/N 4461) GPS Frequency Reference

² Checked with: Tektronix TDS3052 digital oscilloscope (S/N B014783) for PW ≥ 5 ns, Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope (Cal. Label 112506) for PW < 5 ns.