
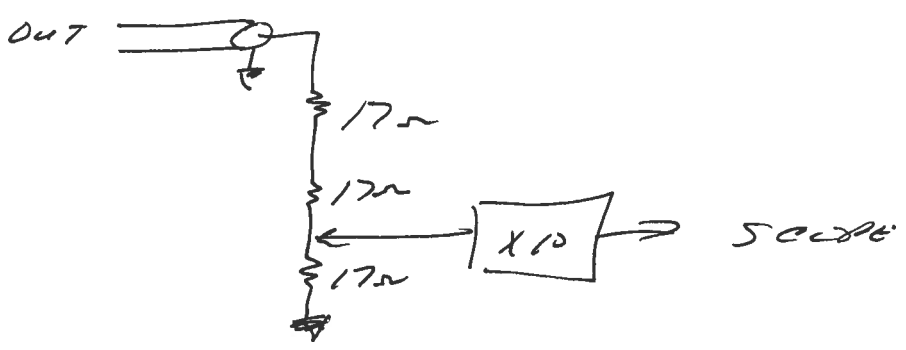
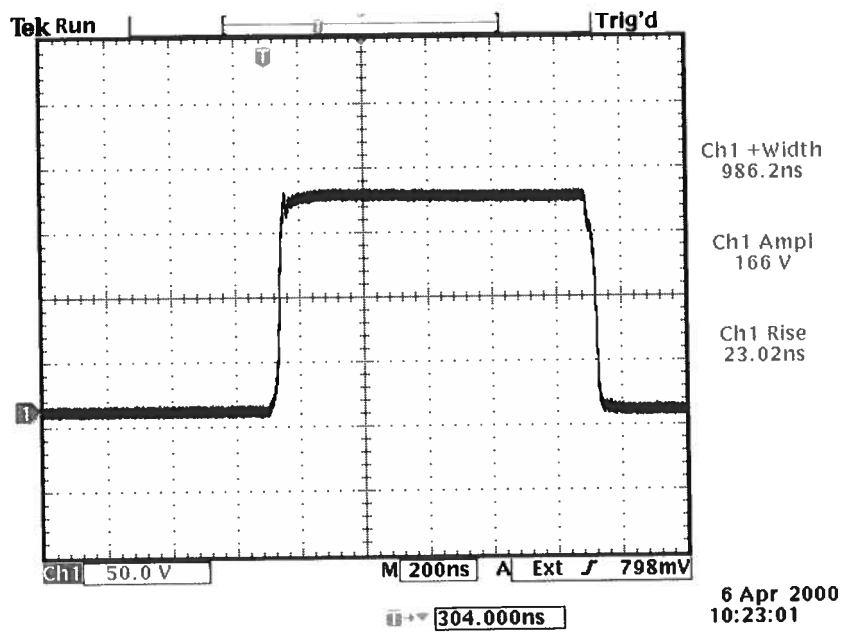


PULSE GENERATOR
PERFORMANCE CHECK

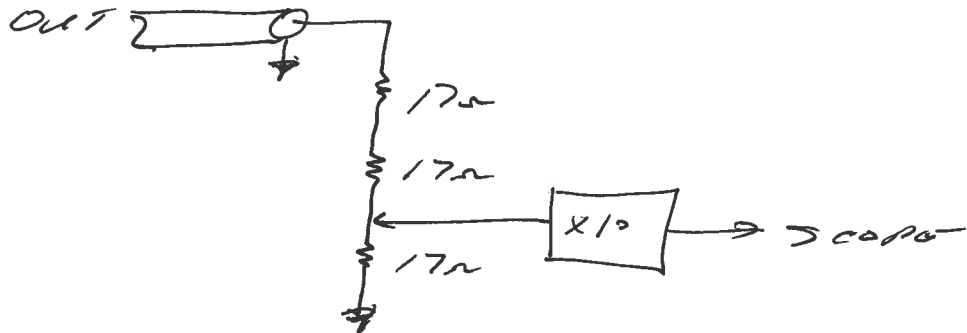
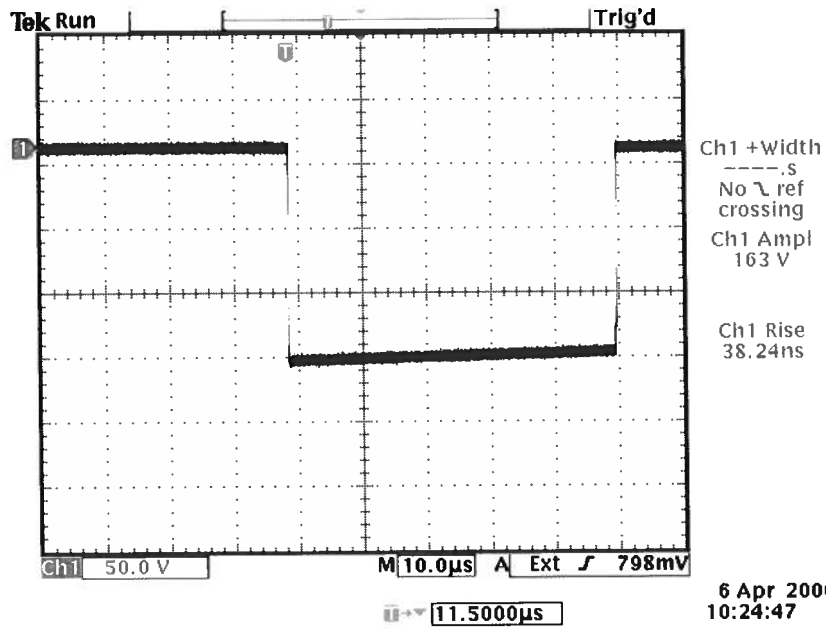
Model: *AM-5B-B-DN*
S.N.: *9213*
Date: *APRIL 5 2000*

- a) Output signal amplitude:
0 TO ±500 V
 - b) Pulse width: *($R_L \geq 50\Omega$)*
 - c) Rise time: *0.1 TO 100 NS*
(10% MAX DUTY CYCLE)
≤ 30 NS
 - d) Fall time:
≤ 30 NS
 - e) PRF: *0 TO 10 KHz*
(10% MAX DUTY CYCLE)
 - f) Jitter, stability:
OK
 - g) Prime power:
120/240 V
50-60 Hz
- 

9213
 $R_c = 50\Omega$
narrow pulse



9213
 $R_c = 50\Omega$
wide pulse





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FAX: (613) 226-2802

"-B" Functional Test & Calibration Certificate

| | | | | | | |
|---------------------------------------|---------------|----------|------------|------------------------------------|-------------------------------|-----|
| Date of test: | April 4, 2000 | | | | Tester: | MJC |
| Programmed model name: | AVR-5B-B-PN | | | | | |
| Programmed serial number: | 9213 | | | | | |
| Firmware revision: | 2.11 | | | | | |
| Internal trigger checked at: | 1 Hz | 100 Hz | 1 kHz | 10 kHz | | |
| Actual measured output ¹ : | 1.001 Hz | 99.94 Hz | 1.002 kHz | 10.03 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: | 100 ns | 1 us | 10 us | 100 us | 10 Hz, +500V, into 50 Ohms | |
| Actual measured output ² : | 102 ns | 0.986 us | 9.97 us | 100.4 us | | |
| PWin = PWout mode checked: | yes | | | | DC mode checked: | N/A |
| Duty Cycle Limit: | 1% | | | | | |
| Delay nulled: | yes | | | | | |
| Delay checked at: | 1 us | 10 us | 100 us | 10 Hz, +500V, 1 us, 50 Ohms | | |
| Actual measured output ¹ : | 1.017 us | 10.03 us | 100.3 us | | | |
| Double pulse checked: | N/A | | | | | |
| Invert mode checked: | N/A | | | | | |
| ECL/TTL modes checked: | N/A | | | | | |
| Zout switch checked: | N/A | | | | | |
| Amplitude checked at: | -50V | +100V | -250V | +500V | 10 Hz, 10 us, into 50 Ohms | |
| Actual measured output ² : | -50.0V | +100.0V | -252V | +500V | | |
| 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 | | | Amplitude-dependent offset nulled: | | |
| 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: | 3k 6.2k | | |
| DC fuses: | Positive: | 2.5A | Negative: | N/A | | |
| AC Current at 115 VAC: | Quiescent: | 0.42A | Max. Load: | 0.95A | | |
| AC fuse: | 1.5A | | | | | |
| 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.