

PULSE GENERATOR
PERFORMANCE CHECK

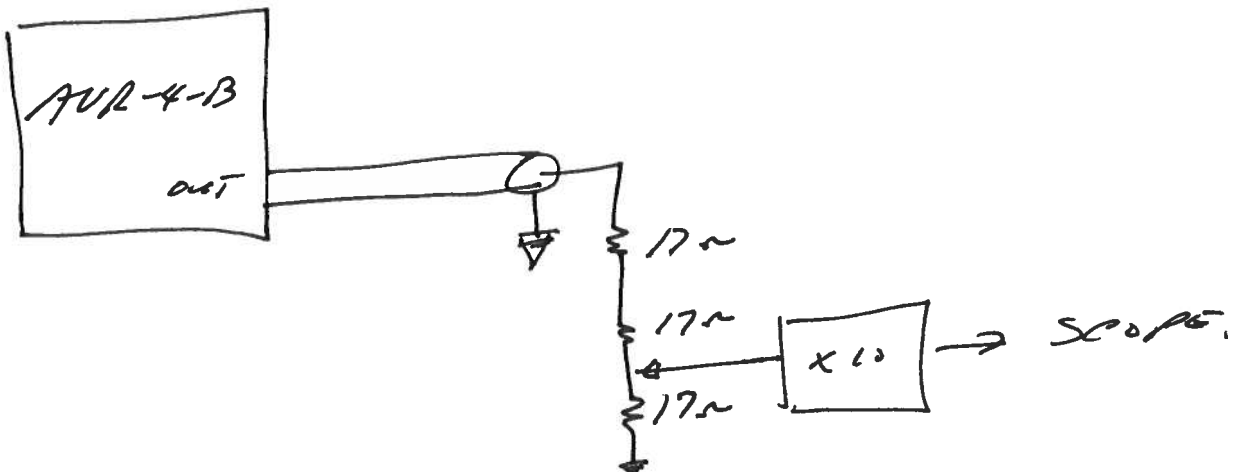
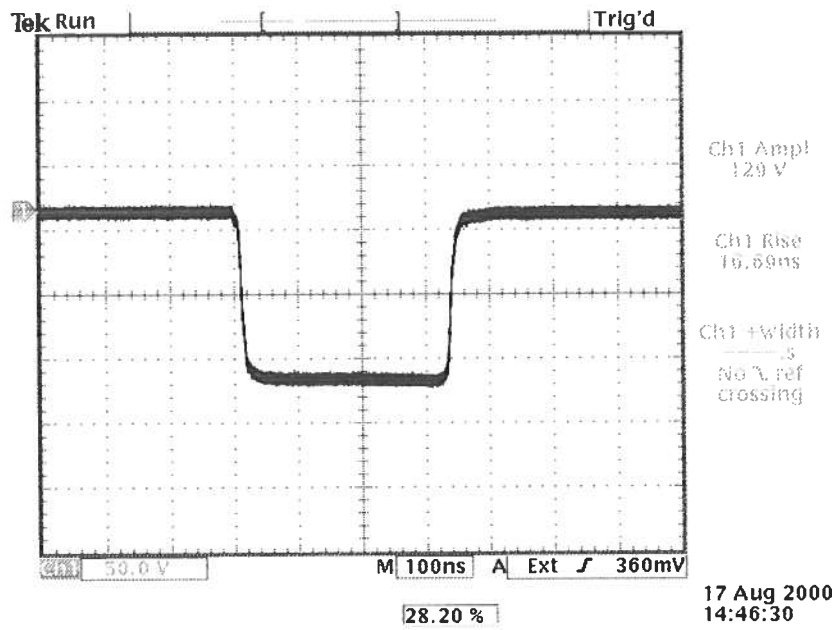
Model: *AVK-4-B-N-LT1*
S.N.: *9447*
Date: *Aug 16 2000*

- a) Output signal amplitude:
0 to 400 V (to RL)
- b) Pulse width: *≥ 50 ns*
- c) Rise time: *100 ns to 1 μs*
(1% max duty cycle)
≤ 20 ns
- d) Fall time:
≤ 20 ns
- e) PRF: *0 to 10 kHz*
(1% max duty cycle)
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V
50-60 Hz



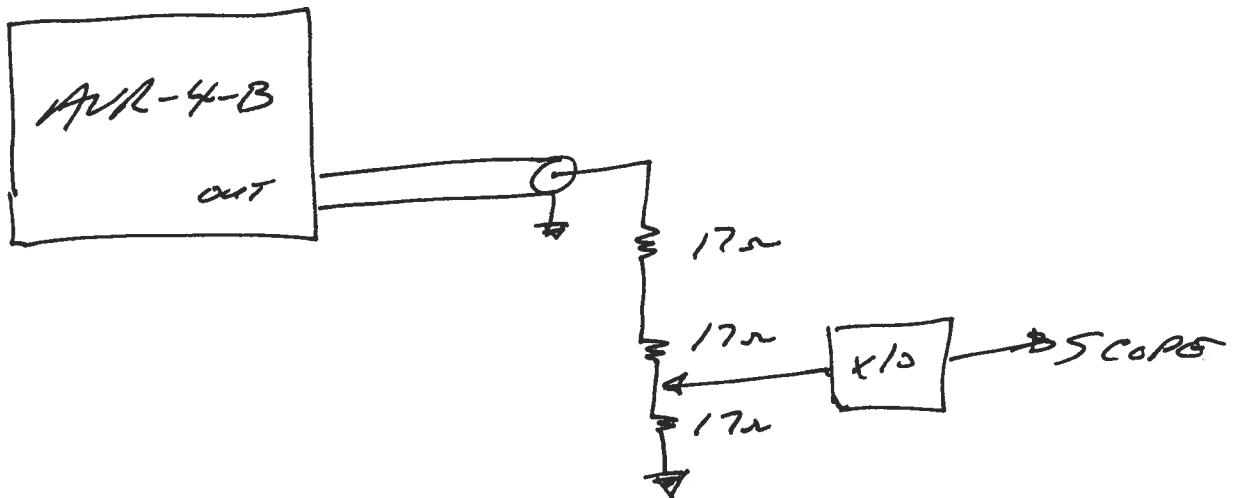
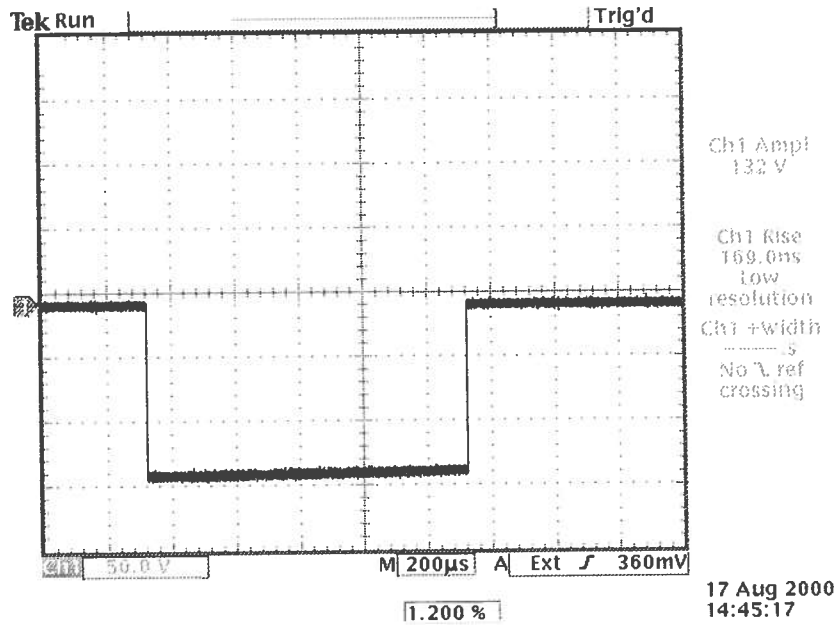
9447

SHORT PULSE



9447

WIDE PULSE





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"-B" Functional Test & Calibration Certificate

| | | | | | | |
|---------------------------------------|-----------------|----------|------------|------------------------------------|------------------------------|-----|
| Date of test: | August 16, 2000 | | | | Tester: | MJC |
| Programmed model name: | AVR-4-B-N-LT1 | | | | | |
| Programmed serial number: | 9447 | | | | | |
| Firmware revision: | 2.21 | | | | | |
| Internal trigger checked at: | 1 Hz | 10 Hz | 100 Hz | 1 kHz | 10 kHz | |
| Actual measured output ¹ : | 1.001 Hz | 10.00 Hz | 100.1 Hz | 1.003 kHz | 9.98 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 | 1 ms | 1 Hz, -400V, into 50 Ohms | |
| Actual measured output ² : | 99.3 ns | 1.00 us | 9.95 us | 1.00 ms | | |
| PWin = PWout mode checked: | yes | | | DC mode checked: | N/A | |
| Duty Cycle Limit: | 1% | | | | | |
| Delay nulled: | yes | | | | | |
| Delay checked at: | 100 ns | 1 us | 10 us | 1 ms | 5 Hz, -400V, into 50 Ohms | |
| Actual measured output ¹ : | 99 ns | 0.995 us | 9.99 us | 1.005 ms | | |
| Double pulse checked: | N/A | | | | | |
| Invert mode checked: | N/A | | | | | |
| ECL/TTL modes checked: | N/A | | | | | |
| Zout switch checked: | N/A | | | | | |
| PRF, PW, delay min-to-max check: | yes | | | | | |
| Amplitude checked at: | -50V | -100V | -200V | -400V | 10 Hz, 10us, into 50 Ohms | |
| Actual measured output ² : | -49.6V | -100V | -200V | -400V | | |
| Amplitude polarity: | - | | | | | |
| Zout calibration: | N/A | | | | | |
| Electronic amplitude control: | N/A | | | | | |
| External amplify mode: | N/A | | | | | |
| Ultravolt 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: | 2.7k + 2200uF | | |
| DC fuses: | Positive: | 2A | Negative: | N/A | | |
| AC Current at 115 VAC: | Quiescent: | 0.38A | Max. Load: | 1-1.5A | | |
| 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.