

PULSE GENERATOR

PERFORMANCE CHECK

Model: AV-107D-B-FN

S.N.: 9528

Date: NOV 28 2000

- a) Output signal amplitude:
0 to ± 20 AMP
- b) Pulse width: (0 to 0.7 ± 60 V)
0.05 to 5.04 μ S
- c) Rise time:
 ≤ 30 NS
- d) Fall time:
 ≤ 30 NS
- e) PRF: 0 to 500 Hz.
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V
50-60 Hz

(A)

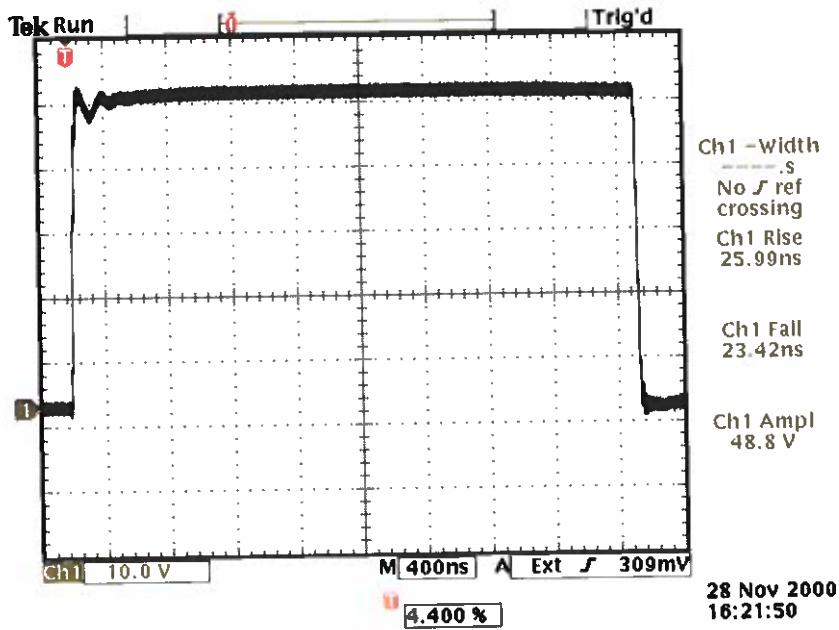
9520

P6-P out

$R_c = 2.35 \Omega$

$I_{out} = +20 \text{ Amps}$

PBF = 500 Hz.

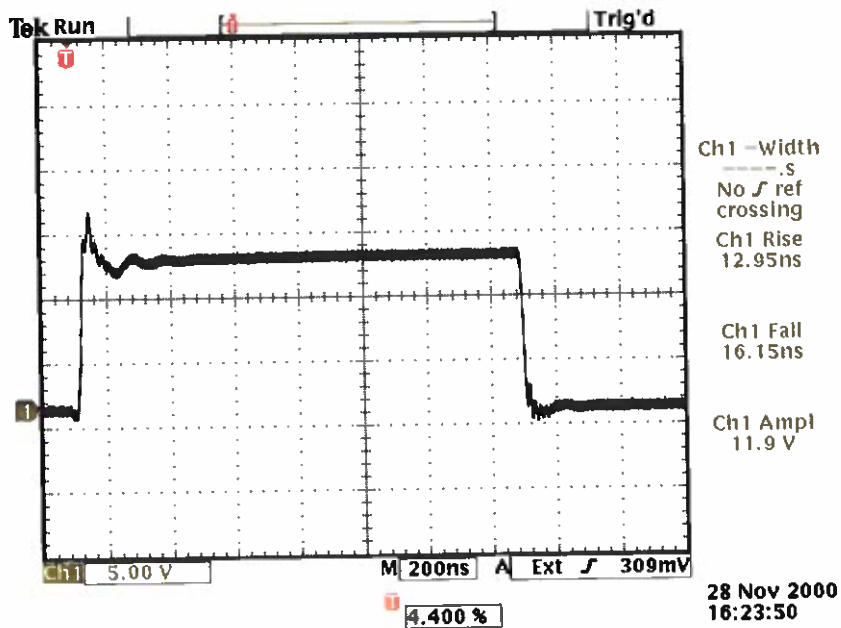


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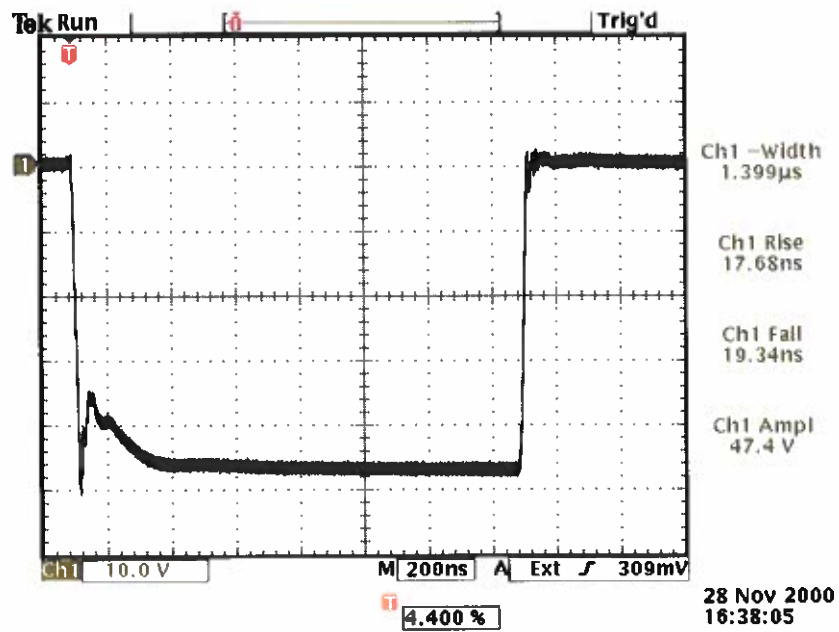
P6 → OUT.

AS ⓐ BUT $I_L = 5.0 \text{ AMP}$



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PG-N out.
 $R_L = 2.35 \Omega$
 $I_{out} = -20 \text{ Amp.}$
 $P_{RF} = 500 \text{ W}$

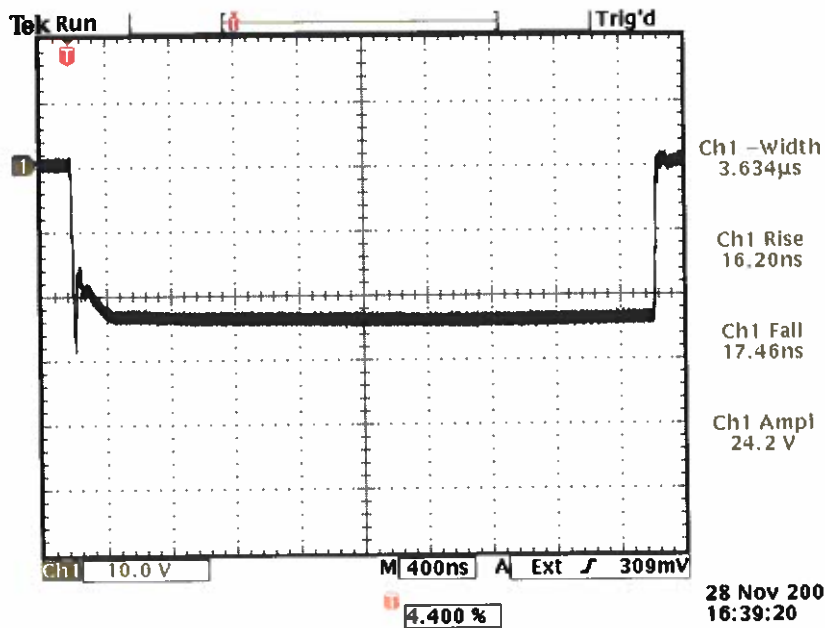


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P6-N OUT

AS ② BUT -10 AMP OUT





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"-B" Functional Test & Calibration Certificate

| | | | | | | |
|---------------------------------------|-------------------|-------------------------------------|------------|------------------------------------|---------------|-----|
| Date of test: | November 28, 2000 | | | | Tester: | MJC |
| Programmed model name: | AV-107D-PN-B | | | | | |
| Programmed serial number: | 9528 | | | | | |
| Firmware revision: | 2.22 | | | | | |
| Internal trigger checked at: | 1 Hz | 10 Hz | 100 Hz | 500 Hz | | |
| Actual measured output ¹ : | 0.995 Hz | 9.95 Hz | 99.5Hz | 498 Hz | | |
| External trigger checked: | yes | Gate checked: | | | yes | |
| Trigger load resistor present: | yes | | | | | |
| Manual trigger checked: | yes | | | | | |
| Pulse compression checked: | yes | Low Amplitude PW Distortion Nulled: | | | N/A | |
| Pulse width checked at: | 50 ns | 500 ns | 5 us | 10 Hz, +20A, | | |
| Actual measured output ² : | 48 ns | 502 ns | 5.05 us | into 2.35 Ohm | | |
| PWin = PWout mode checked: | yes | DC mode checked: | | | N/A | |
| Duty Cycle Limit: | 0.25% | | | | | |
| Delay nulled: | yes | | | | | |
| Delay checked at: | 100 ns | 1 us | 5 us | 10 Hz, +20A, | | |
| Actual measured output ¹ : | 102 ns | 1.000 us | 5.06 us | into 2.35 Ohm | | |
| Double pulse checked: | N/A | | | | | |
| Invert mode checked: | N/A | | | | | |
| ECL/TTL modes checked: | N/A | | | | | |
| Zout switch checked: | N/A | | | | | |
| Amplitude checked at: | +2A | +20A | -2A | -20A | 10 Hz, 5 us, | |
| Actual measured output ² : | +2.01A | +20.5 A | -2.01A | -20.2A | into 2.35 Ohm | |
| 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 | | | Amplitude-dependent offset nulled: | | |
| 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: | 18k | Installed: | 15k | | |
| DC fuses: | Positive: | 0.5A | Negative: | N/A | | |
| AC Current at 115 VAC: | Quiescent: | 0.47A | Max. Load: | 0.65A | | |
| AC fuse: | 1A | | | | | |
| Photographed: | yes | | | | | |

¹ Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference

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