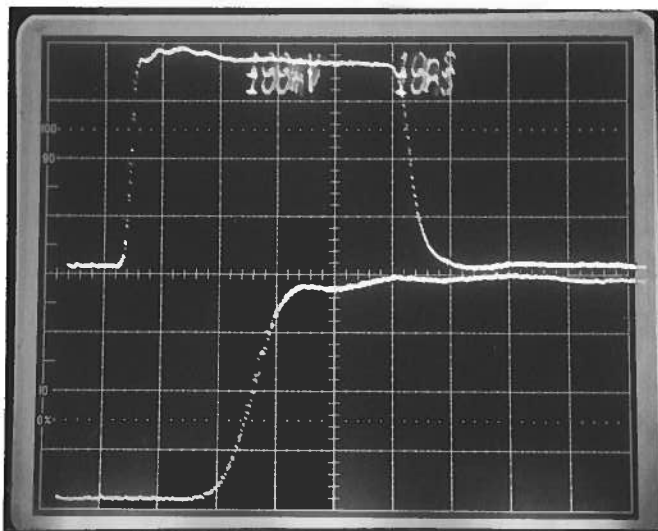


PULSE GENERATOR
PERFORMANCE CHECK

Model: *PVL-2-B-PN*

S.N.: *9733*

Date: *APRIL 25 2001*



- a) Output signal amplitude:
0 TO 350 V (TO 50n)
- b) Pulse width:
5 TO 100 nS
- c) Rise time:
≤ 2 nS
- d) Fall time:
≤ 3 nS
- e) PRF:
0 TO 5 KHz.
- f) Jitter, stability:
OK
- g) Prime power:
120/240V
50-60 Hz.

60 db ATTEN
- 100 VOLTS/DIV

TOP 10 nS/DIV

POT 2 nS/DIV (RISE TIME)



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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"-B" Functional Test & Calibration Certificate

| | | | | | | | |
|---------------------------------------|----------------|--------------------------------------|------------|-------------------------------------|--------------------------|-----|-----|
| Date of test: | April 25, 2001 | | | | Tester: MJC | | |
| Programmed model name: | AVL-2-B-PN | | | | | | |
| Programmed serial number: | 9733 | | | | | | |
| Firmware revision: | 2.24 | | | | | | |
| Internal trigger checked at: | 1 Hz | 10 Hz | 100 Hz | 1 kHz | 5 kHz | | |
| Actual measured output ¹ : | 0.998 Hz | 9.95 Hz | 99.5 Hz | 0.998 kHz | 4.992 kHz | | |
| External trigger checked: | yes | | | Gate checked: | | yes | |
| Manual trigger checked: | yes | | | | | | |
| Pulse compression checked: | yes | Low Amplitude PW Distortion Nullled: | | | | N/A | |
| Pulse width checked at: | 5 ns | 25 ns | 50 ns | 100 ns | 100 Hz, +350V to 50 Ohms | | |
| Actual measured output ² : | 4.8 ns | 24.8 ns | 52.7 ns | 102 ns | | | |
| PWin = PWout mode checked: | N/A | | | DC mode checked: | | | N/A |
| Duty Cycle Limit: | N/A | | | | | | |
| Delay nullled: | yes | | | | | | |
| Delay checked at: | 100 ns | 200 ns | 500 ns | 100 Hz, +350V to 50 Ohms | | | |
| Actual measured output ¹ : | 103 ns | 201 ns | 506 ns | | | | |
| Double pulse checked: | N/A | | | | | | |
| Invert mode checked: | N/A | | | | | | |
| ECL/TTL modes checked: | N/A | | | | | | |
| Zout switch checked: | N/A | | | | | | |
| Amplitude checked at: | +100V | -200V | +350V | 100 Hz, 100ns to 50 Ohms | | | |
| Actual measured output ² : | +99.2V | -199V | +348V | | | | |
| 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 nullled: | | | |
| LCD Monitor calibrated: | N/A | | | Monitor offset nullled: | | | |
| Offset checked at: | N/A | | | | | | |
| Actual measured output ² : | N/A | | | | | | |
| Offset nullled (output on): | N/A | | | Amplitude-dependent offset nullled: | | | |
| Offset nullled (output off): | N/A | | | | | | |
| RS-232 checked: | yes | | | | | | |
| Sync pulse width checked: | 200 ns | | | | | | |
| Circuit Boards: | PS: | 93 | Main: | 108B | | | |
| Overload Trigger Resistance: | Trips at: | N/A | Installed: | 3k | | | |
| DC fuses: | Positive: | 0.5A | Negative: | N/A | | | |
| AC Current at 115 VAC: | Quiescent: | 0.47A | Max. Load: | 0.54A | | | |
| AC fuse: | 1A | | | | | | |
| Photographed: | yes | | | | | | |

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

² Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.