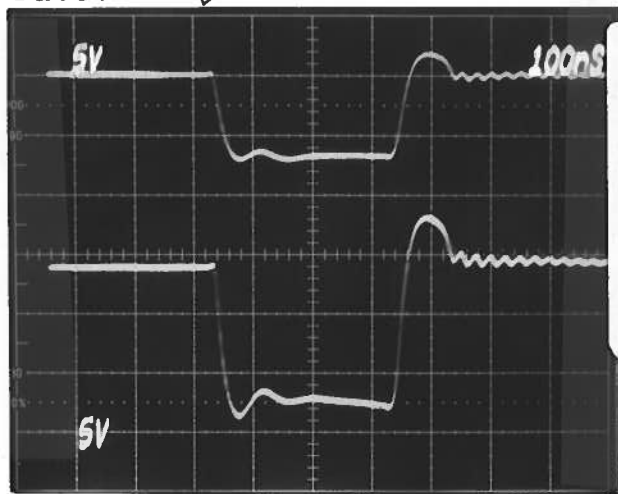


PULSE GENERATOR
PERFORMANCE CHECK

Model: A20-7A-C-PN-MI-MV-M4

S.N.: 6927

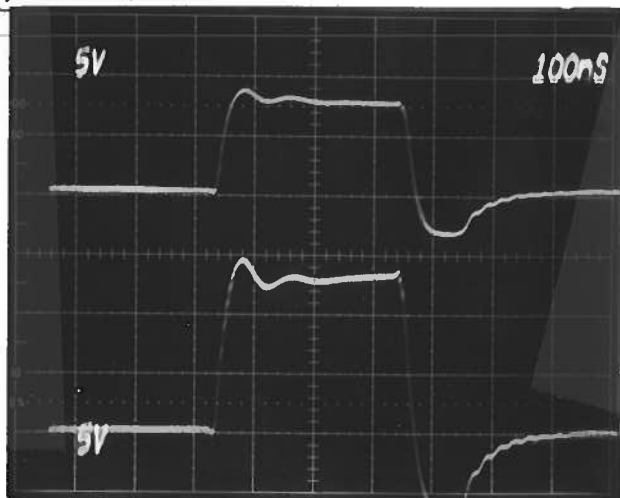
Date: JUNE 20 1994



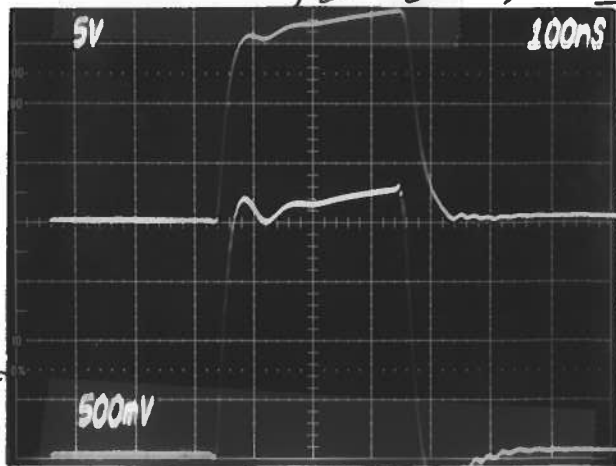
OUT
MI
OUT

- a) Output signal amplitude:
0 TO ± 100 AMPS (16V MAX)
- b) Pulse width:
40 TO 500 NS
- c) Rise time: ≤ 20 NS
- d) Fall time: ≤ 20 NS
- e) PRF: 0 TO 10 KHz
- f) Jitter, stability: OK

(A) IN5819 DIODE USED TO LASER DIODE $V_D = 7$ VOLTS, $V_E = 17$ VOLTS, $\therefore I_{PEAK} = \frac{4}{0.05} = 80$ AMP (N MODULE)



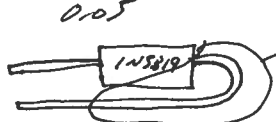
- g) Prime power: 170 / 240 V
50-60 Hz



OUT
MI
OUT

(B) IN5819 DIODE IN -P MODULE $V_D \approx 8$ VOLTS, $V_E = 13$ VOLTS, $\therefore I_{PEAK} = \frac{13-8}{0.05} = 100$ AMPS

NOTE



EXTRA LEAD LENGTH ADDS INDUCTANCE TO CAUSE WIGGLE

(C) IN459A DIODE USED. $V_D \approx 18$ VOLTS, $V_E \approx 23$ VOLTS, $\therefore I_{PEAK} = 100$ AMPS (BARELY)