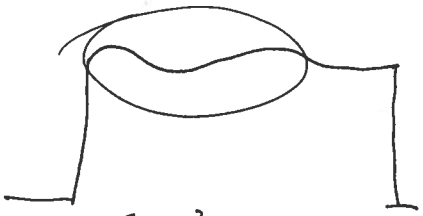
PULSE GENERATOR

PERFORMANCE CHECK

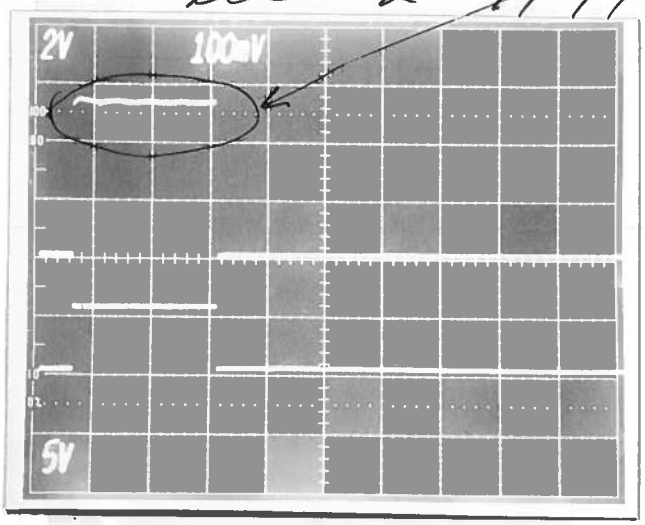
Model: AV-108-4M01

S.N.: 7214

Date: DEC 2 1994



≈ 2 KHz RINGING ON M OUT WAVEFORM INDUCED BY M CIRCUIT SWITCHING NOT IN I_{OUT} WAVEFORM. (TO BE REMOVED IN UNIT 4.)



(A) 1 MS/DIV $\bar{I}$ = 14.0 AMP
$\hat{I}$ = 100 AMP

a) Output signal amplitude:
0 TO +100 AMP

b) Pulse width:
10 US TO 1.0 MS
(20% MAX DUTY CYCLE)

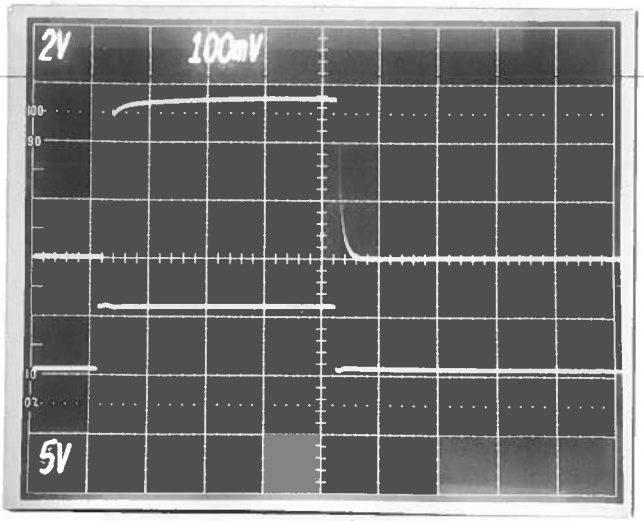
c) Rise time:
≤ 7 US

d) Fall time:
≤ 7 US

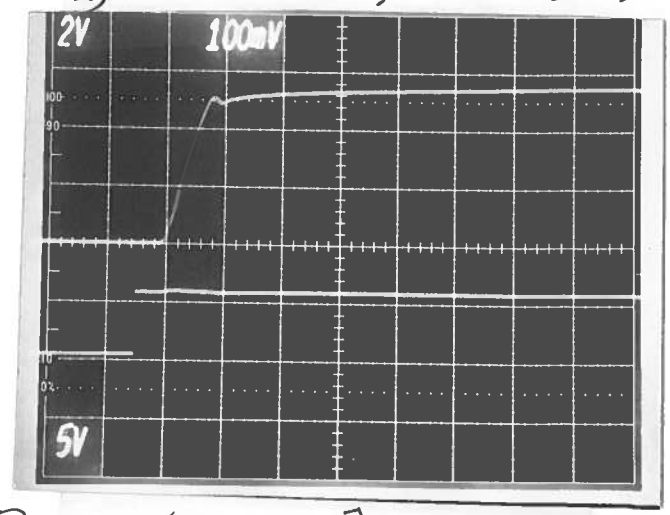
e) PRF:
0 TO 1 KHz
20% MAX DUTY CYCLE

f) Jitter, stability:
OK

g) Prime power:
1) +24 VDC, 350 mA
2) -12 VDC, 20 mA



(B) 50 US/DIV $\hat{I}$ = 100 AMP



(C) 10 US/DIV, $\hat{I}$ = 100 AMP
RISETIME MEAS

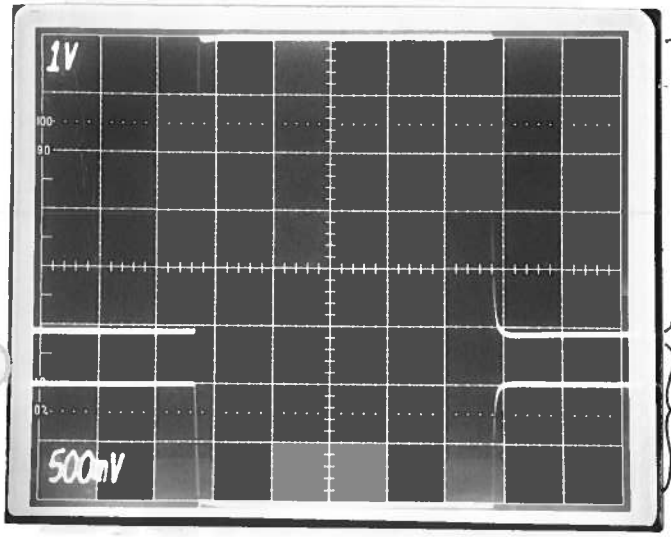
PULSE GENERATOR

PERFORMANCE CHECK

Model: PV-108-CUM1

S.N.: 7214 (ANOD1)

Date: MAY 8 95



V_{MON}

CT PROBE

(A) 100 US/DIV, $\bar{I}$ = 14 AMP
$\hat{I}$ = 100 AMPS
TOP: V_{MON} OUT
BOT: ION PHYSICS PROBE OUT

a) Output signal amplitude: 0 TO +10. AMPS

b) Pulse width: 10 US TO 1.0 MS (20 % MAX DUTY CYCLE)

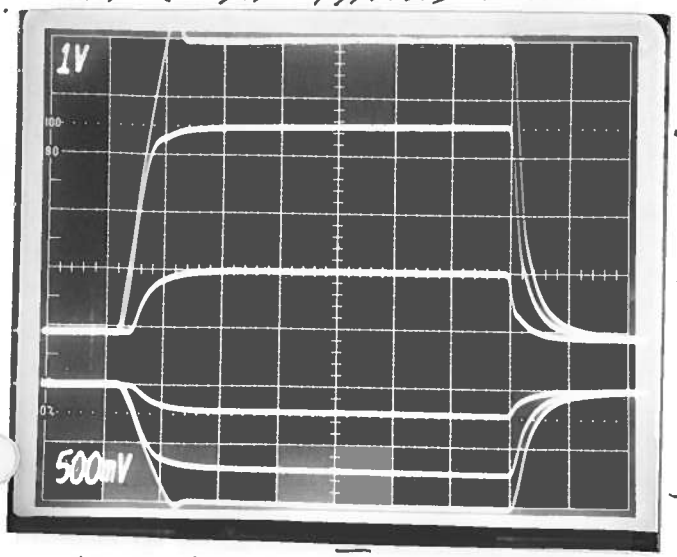
c) Rise time: ≤ 7 US

d) Fall time: ≤ 7 US

e) PRF: 0 TO 1 KHZ 20% MAX DUTY CYC

f) Jitter, stability: OK

g) Prime power: a) +24VDC, 475mA
b) -12VDC, 20 AMP



← V_{IN} = 5.00 V

← V_{IN} = 3.50 V

← V_{IN} = 1.00 V

CT OUT

(B) 10 US/DIV $\bar{I}$ ≈ 1.0 AMP
$\hat{I}$ = 100, TO +20. AMPS