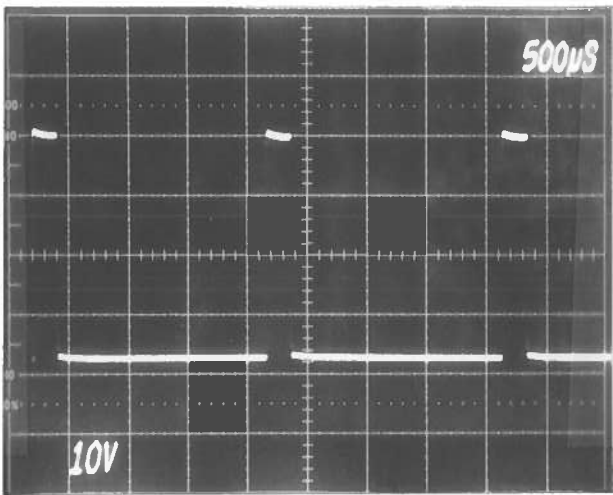


PULSE GENERATOR
PERFORMANCE CHECK

Model: *MD-8C-C-7*

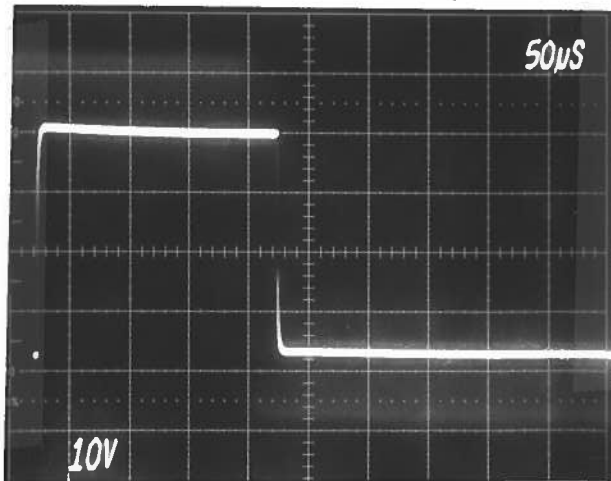
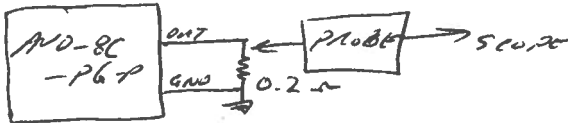
S.N.: *6046*

Date: *OCT 25 1992*



- a) Output signal amplitude:
0 TO +40 VOLTS TO
- b) Pulse width: *R_L = 0.2 OHMS * (200 AMPS)*
2 NS TO 20 MS (+DC)
- c) Rise time:
≤ 1 NS
- d) Fall time:
≤ 1 NS

Ⓐ *R_L = 0.2 ∴ 50 AMPS/DIV*



- e) PRF: *0.1 MHz TO 1KHz*
- f) Jitter, stability:
OK
- g) Prime power: *a) 10/240 V 50 60Hz*
b) 0 TO +40 VDC, 100 AMP LOAD PS
- * *MAX AVERAGE CURRENT*
100 AMPS
- h) *MAX DUTY CYCLE:*
100% (BUT I NOT TO EXCEED 100 AMPS)

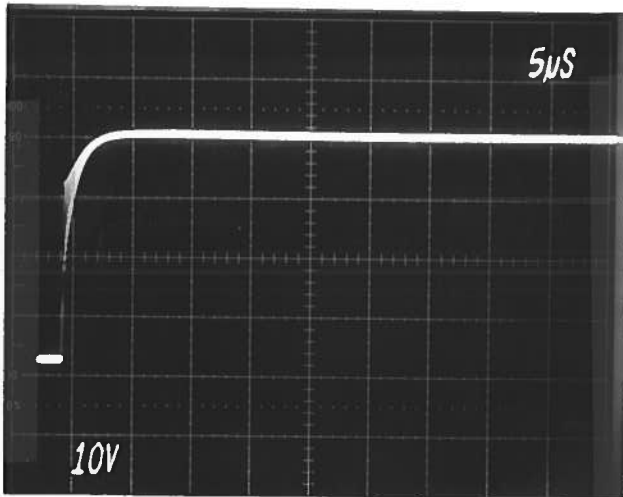
Ⓑ *AS Ⓐ BUT*
50 NS/DIV

PULSE GENERATOR
PERFORMANCE CHECK

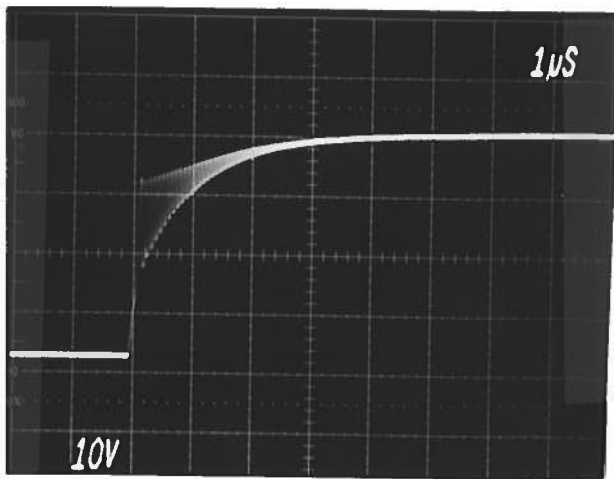
Model:

S.N.: 6046 CONT.

Date:



© AS ② BUT 5 µS/DIV
(RISE TIME)



① AS ② BUT 1 µS/DIV
(RISE TIME)

a) Output signal amplitude:

b) Pulse width:

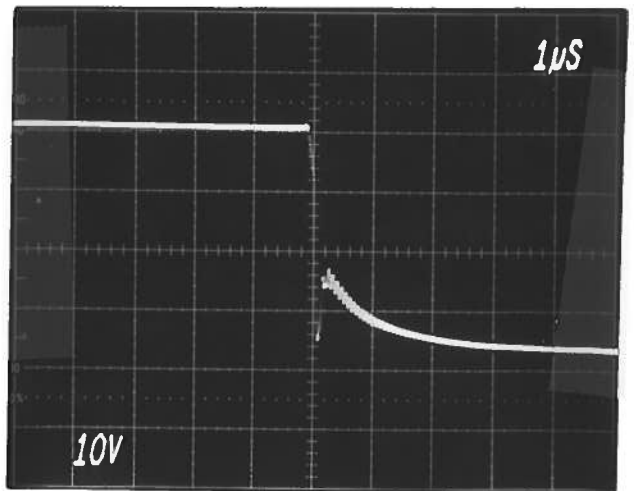
c) Rise time:

d) Fall time:

e) PRF:

f) Jitter, stability:

g) Prime power:



② AS ① BUT
FALL TIME

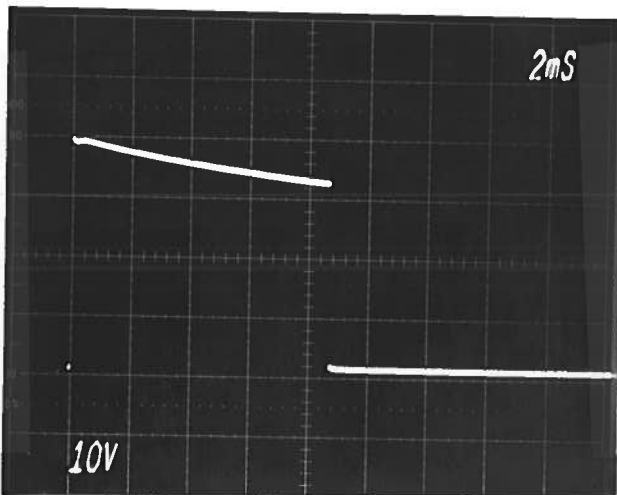
PULSE GENERATOR

PERFORMANCE CHECK

Model:

S.N.: 6046 CONT.

Date:



a) Output signal amplitude:

b) Pulse width:

c) Rise time:

d) Fall time:

e) PRF:

f) Jitter, stability:

g) Prime power:

① $R_L = 0.2$ WIDE PULSE, DROOP TEST.

DROOP IS 17dBH BECAUSE:

① LAB PS COULD PROVIDE ONLY 60 AMPS. FOR WIDE PULSE WITH LOW DROOP USE ≈ 200 AMP LOAD PS

② MVO-8C-C HAS AN INTERNAL BYPASS CAPACITANCE OF 50,000 μ F. THEREFORE FOR VERY WIDE PULSES, DROOP CAN ONLY BE AVOIDED BY USING A VERY HIGH CURRENT POWER SUPPLY (≈ 200 AMP).

ADDITIONAL NOTE

WHEN DRIVING A LASER DIODE LOAD PLACE A RESISTOR IN SERIES WITH THE DIODE TO PROVIDE A TOTAL LOAD VOLTAGE OF AT LEAST 10V. THE RESISTOR WILL HELP SWAMP THE NON-LINEAR NATURE OF THE DIODE.