

PULSE GENERATOR

PERFORMANCE CHECK

Model: AV-107E-B-M-P

S.N.: 9076

Date: DEC 7 1999

- a) Output signal amplitude:  
0 TO + 2.5 AMP
- b) Pulse width:  
(TO 0 TO + 60 VOLTS)  
0.2 TO 200 US
- c) Rise time:  
4% MAX DUTY CYCLE  
≤ 30 NS
- d) Fall time:  
≤ 30 NS
- e) PRF: 0 TO 1 KHz.
- f) Jitter, stability:  
4% MAX DUTY CYCLE  
OK
- g) Prime power: 120/240V  
50-60Hz



9076

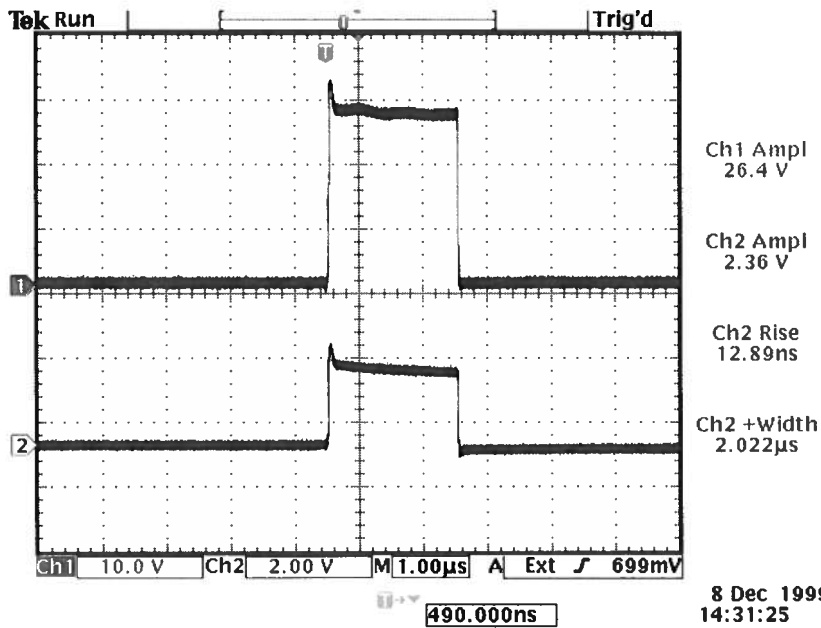
$R_L = 10\ \Omega$

$I_p = 2.5\ \text{amp}$

$PW \approx 2.045$

$V_{LOAD}$

$V_{MON}$   
PW MIN

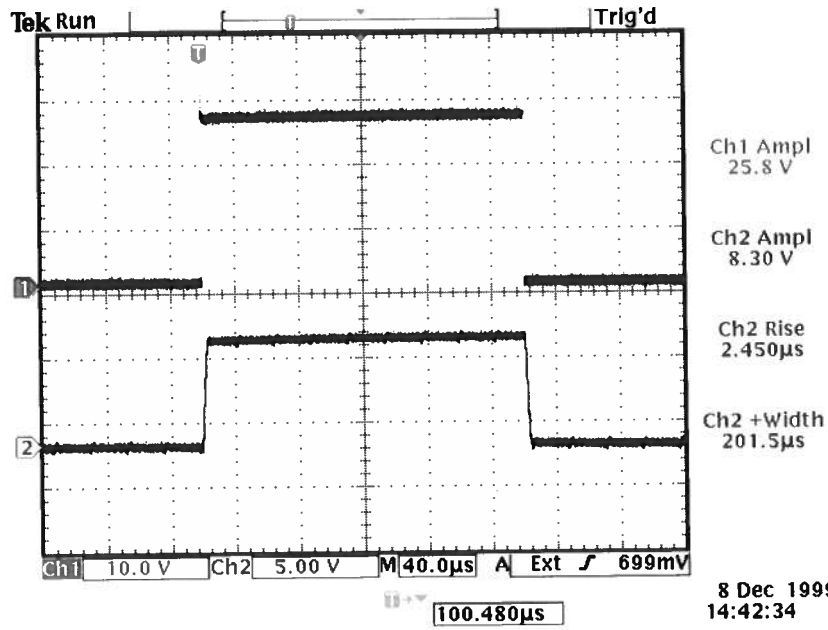


9076  
 $R_c = 10 \Omega$   
 $I_p \approx 2.5 \text{ Amp}$   
 $PW = 200 \mu\text{s}$

$V_{L\text{SAT}}$

$V_{\text{mon}}$

$PW_{\text{max}}$



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$$R_L = 10\ \Omega$$

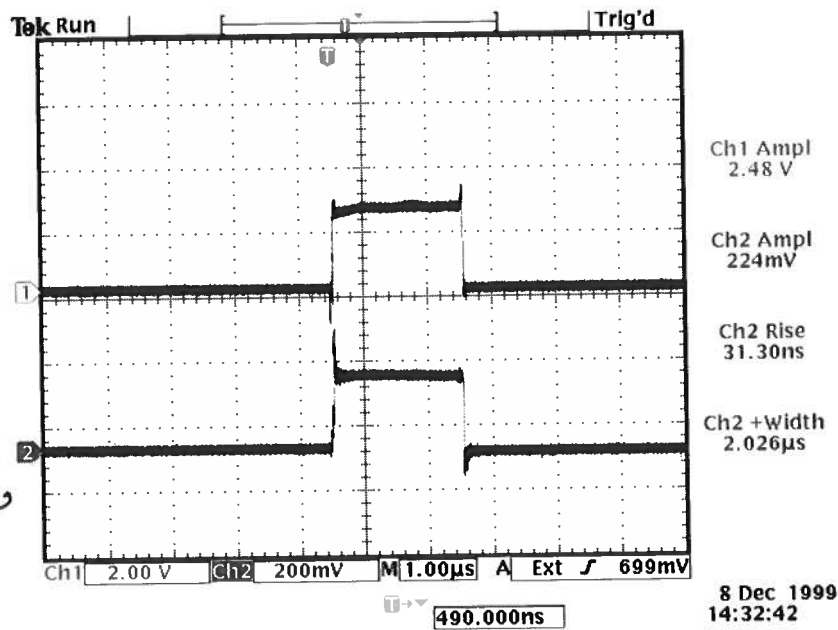
$$I_1 = .25\ A$$

$$PW = 2.0\ \mu S$$

$V_{LOAD}$

$V_{MAN}$

$PW_{MIN}$





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## "-B" Functional Test & Calibration Certificate

Date of test:	December 8, 1999				Tester:	MJC
Programmed model name:	AV-107E-B-M-P					
Programmed serial number:	9076					
Firmware revision:	2.09					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1000 Hz		
Actual measured output <sup>1</sup> :	0.999 Hz	9.98 Hz	99.9 Hz	996 Hz		
External trigger checked:	Yes				Gate checked:	Yes
Trigger load resistor present:	Yes					
Manual trigger checked:	Yes					
Pulse compression checked:	Yes					
Pulse width checked at:	200 ns	2 us	20 us	200 us	At 100 Hz,	
Actual measured output <sup>2</sup> :	192.5 ns	2.014 us	20.2 us	201.6 us	2.5A to 10.73Ω	
PWin = PWout mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	4%					
Delay nulled:	Yes					
Delay checked at:	200 ns	2 us	20 us	200 us	At 100 Hz,	
Actual measured output <sup>1</sup> :	204 ns	2.02 us	20.16 us	201.5 us	2.5A to 10.73Ω	
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	+100 mA	+200 mA	+1 A	+2.5 A	At 100 Hz,	
Actual measured output <sup>2</sup> :	+103.6 mA	+203 mA	+1.013A	+2.48 A	200us, 10.73Ω	
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:	Wide PW monitor: 3.45 V/A, approx. Narrow PW monitor: 1 V/A, approx. Both: R <sub>L</sub> = ∞					
LCD Monitor calibrated:	N/A			Monitor offset nulled:	N/A	
Mon. Single Pulse/Min PW OK:	N/A			SHA Cap:	N/A	
Offset checked at:	N/A					
Actual measured output <sup>2</sup> :	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:	N/A	Installed:	6.2k		
DC fuses:	Positive:	0.5 A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.42 A	Max. Load:	0.66 A		
Photographed:	Yes					

<sup>1</sup> Checked with: HP5370A Universal Time Interval Counter

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