

PULSE GENERATOR

PERFORMANCE CHECK

Model: *AVO-7A-B-P-M*

S.N.: *10283*

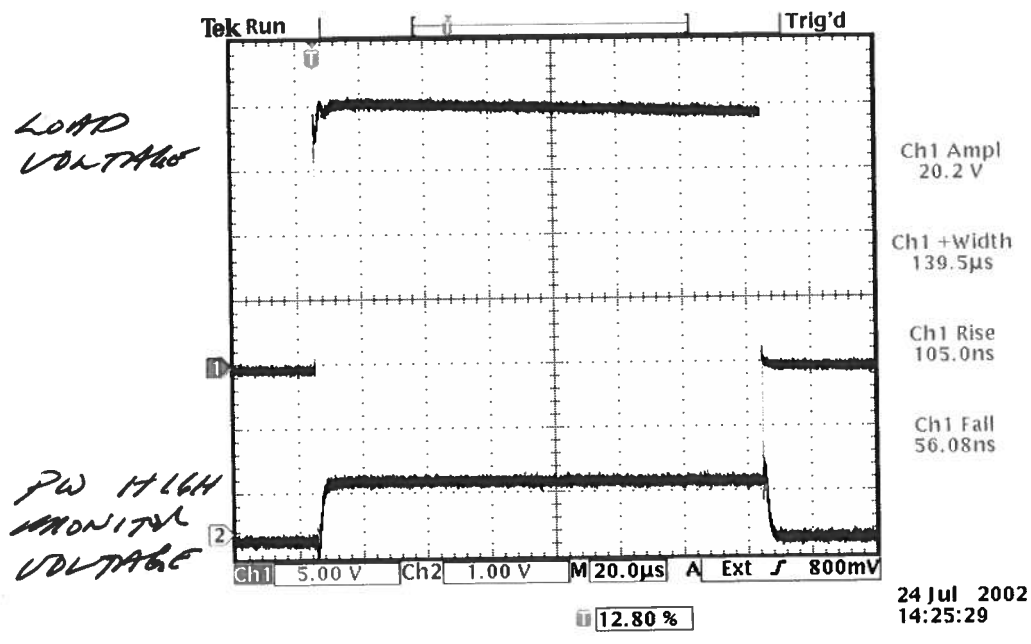
Date: *JUL 24 2002*

- a) Output signal amplitude:
*0 TO +20 V TO RL \geq 0.5 Ω
(40 AMPS MAX)*
- b) Pulse width:
*0.2 TO 200 μ S
(10% MAX DUTY CYCLE)*
- c) Rise time:
 \leq 100 NS
- d) Fall time:
 \leq 100 NS
- e) PRF: *0 TO 1 KHz
10% MAX DUTY CYCLE*
- f) Jitter, stability:
OK
- g) Prime power:
*120/240V
50-60 Hz.*

[Signature]

(A)

10283
WIDE PULSE.
 $R_L \approx 0.5 \Omega$
 $PBF \approx 10 \text{ Hz}$



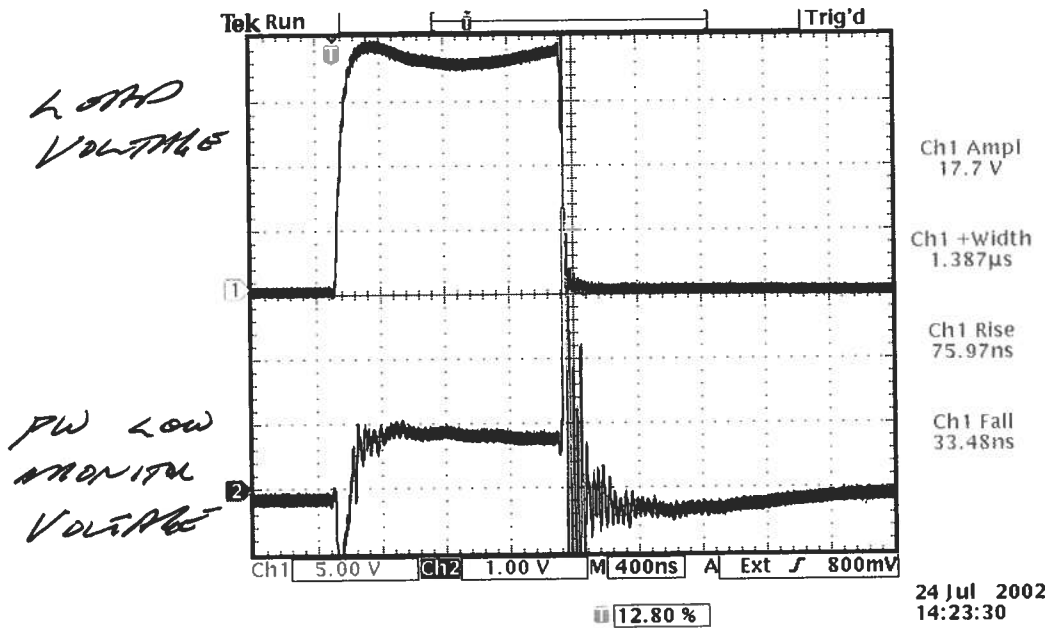
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10283

NARROW PULSE

$R_L = 0.5\Omega$

PRF $\approx 1\text{KHz}$





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"-B" Functional Test & Calibration Certificate

Date of test:	July 24, 2002				Tester:	MJC
Programmed model name:	AVO-7A-B-P-M					
Programmed serial number:	10283					
Firmware revision:	2.40					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output ¹ :	1.000 Hz	9.976 Hz	99.82 Hz	0.997 kHz		
External trigger checked:	yes				Gate checked:	yes
Manual trigger checked:	yes					
Pulse compression checked:	yes	Low Amplitude PW Distortion Nulled:			N/A	
Pulse width checked at:	200 ns	2 us	20 us	200 us	10 Hz, 20V to 0.55 Ohms	
Actual measured output ² :	199 ns	2.02 us	20.2 us	203 us		
PWin = PWout mode checked:	yes				DC mode checked:	N/A
Duty Cycle Limit:	1%					
Delay nulled:	yes					
Delay checked at:	200 ns	2 us	20 us	200 us	10 Hz, 20V to 0.55 Ohms	
Actual measured output ¹ :	199 ns	2.02 us	20.2 us	202 us		
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	+5V	+10V	+20V		100 Hz, 20 us to 0.55 Ohms	
Actual measured output ² :	+4.9V	+10.0V	+20.1V			
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:	1V / 40A, approx	Monitor offset nulled:			N/A	
LCD Monitor calibrated:	N/A					
Offset checked at:	N/A					
Actual measured output ² :	N/A					
Offset nulled (output on):	N/A				Amplitude-dependent offset nulled:	
Offset nulled (output off):	N/A					
RS-232 checked:	yes					
LCD pull-ups installed:	yes					
Sync pulse width checked:	yes					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	6.2k		
DC fuses:	Positive:	1A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.39A	Max. Load:	0.6A		
AC fuse:	1A					
120/240V operation:	OK				Fan operational:	yes
Photographed:	yes					

¹ Checked with: Fluke PM6681 Counter (S/N 9446 066 81016), referenced to Datum ExacTime 9390-6000 (S/N 4461) GPS Frequency Reference

² Checked with: Tektronix TDS3052 digital oscilloscope (S/N B014783) for PW ≥ 5 ns, Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system (Cal. Label 112506) for PW < 5 ns.