

PULSE GENERATOR  
PERFORMANCE CHECK

Model: *AVD-5A-B-T*

S.N.: *9673*

Date: *MAR 2 2001*

- a) Output signal amplitude:  
*0 TO +40 V TO RL  $\geq$  1.0  $\Omega$*
- b) Pulse width: *(40 AMP MAX)*  
*2  $\mu$ S TO DC*
- c) Rise time:  
 *$\leq$  0.5  $\mu$ S*
- d) Fall time:  
 *$\leq$  0.5  $\mu$ S*
- e) PRF: *0 TO 1 KHz*
- f) Jitter, stability:  
*OK*
- g) Prime power:  
*a) 120/240 V, 50-60 Hz*  
*b) 0 TO +40 V 0.5 A,*  
*40 AMP DC*  
*POWER SUPPLY.*

*ef*

(A)

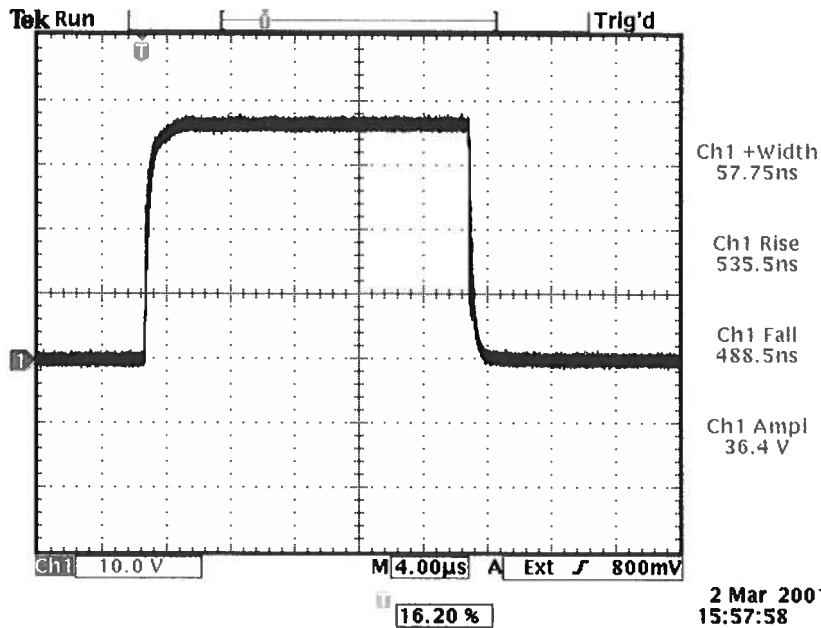
9673

NARROW PULSE

$r_c = 1.0n$

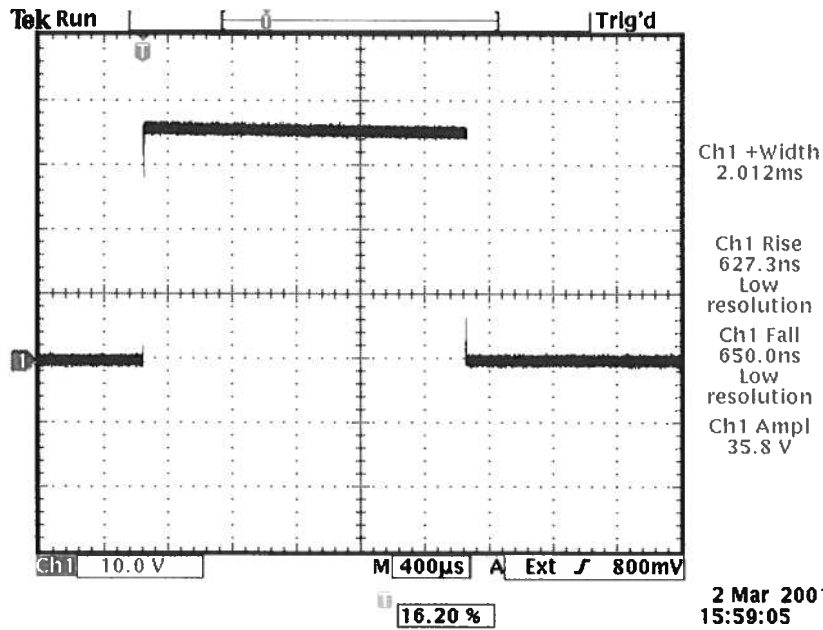
PRF  $\approx 100$  Hz

LOAD VOLTAGE



(B)

9673  
WIDE PULSE  
 $R_L = 1.0\Omega$   
 $PRT \approx 100\mu A$   
LOAD VOLTAGE



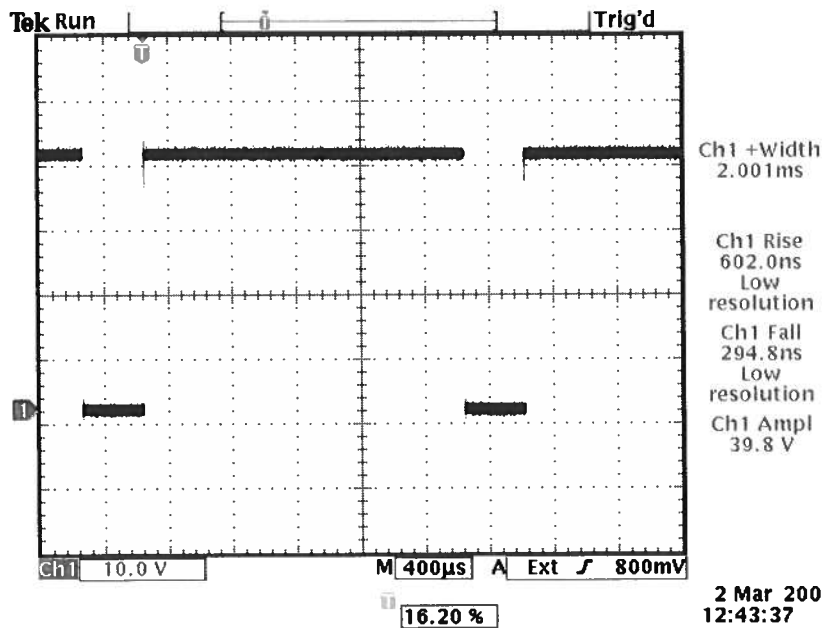
9

9673

WIDE PULSE, 11VHT DUTY CYCLE.

$R_L = 1.0 \Omega$

LOAD VOLTAGE.





# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

P.O. BOX 265  
OGDENSBURG, NY  
U.S.A. 13669-0265  
TEL: (315) 472-5270  
FAX: (613) 226-2802

TEL: 1-800-265-6681  
FAX: 1-800-561-1970

e-mail: info@avtechpulse.com  
http://www.avtechpulse.com

P.O. BOX 5120 STN. F  
OTTAWA, ONTARIO  
CANADA K2C 3H4  
TEL: (613) 226-5772  
FAX: (613) 226-2802

## "-B" Functional Test & Calibration Certificate

Date of test:	March 2, 2001				Tester:	MJC
Programmed model name:	AVO-8A-B-P					
Programmed serial number:	9673					
Firmware revision:	2.22					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output <sup>1</sup> :	1.000 Hz	9.97 Hz	99.7 Hz	0.999 kHz		
External trigger checked:	yes			Gate checked:	yes	
Manual trigger checked:	yes					
Pulse compression checked:	N/A		Low Amplitude PW Distortion Nulled:		N/A	
Pulse width checked at:	2 us	20 us	200 us	2 ms	100 Hz, at trigger point	
Actual measured output <sup>2</sup> :	2.01 us	20.1 us	201.3 us	2.01 ms		
PWin = PWout mode checked:	yes			DC mode checked:	yes	
Duty Cycle Limit:	100%					
Delay nulled:	N/A					
Delay checked at:	2 us	20 us	200 us	2 ms	100 Hz, trig to sync delay	
Actual measured output <sup>1</sup> :	2.02 us	20.1 us	201.2 us	2.01 ms		
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	N/A					
Actual measured output <sup>2</sup> :	N/A					
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:	N/A			Monitor offset nulled:		
LCD Monitor calibrated:	N/A			Monitor offset nulled:		
Offset checked at:	N/A					
Actual measured output <sup>2</sup> :	N/A					
Offset nulled (output on):	N/A			Amplitude-dependent offset nulled:		
Offset nulled (output off):	N/A					
RS-232 checked:	yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A		
DC fuses:	Positive:	N/A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.4A	Max. Load:	N/A		
AC fuse:	1A					
Photographed:	yes					

<sup>1</sup> Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference

<sup>2</sup> Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,  
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.