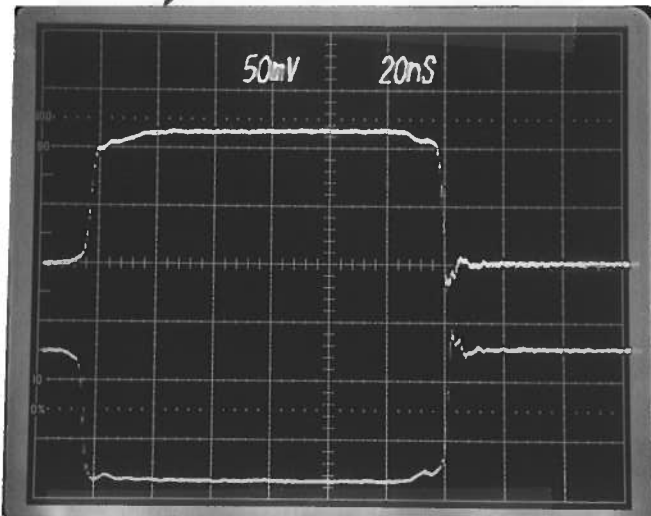


PULSE GENERATOR  
PERFORMANCE CHECK

Model: *MV-1011B1-B*

S.N.: *9832*

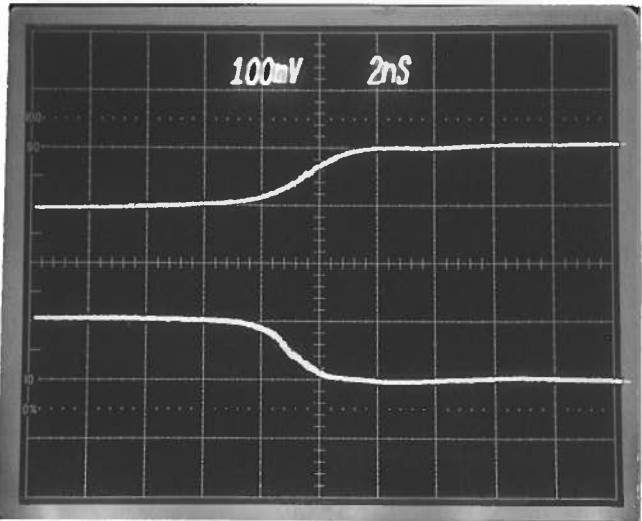
Date: *JUNE 28 2001*



- a) Output signal amplitude:  
*0 TO ±100V INTO 50Ω*
- b) Pulse width:  
*100NS TO 1 MS*  
*(5% MAX DUTY CYCLE)*
- c) Rise time:  
*≤ 2 NS*
- d) Fall time:  
*≤ 2 NS*

(A) *60 db/DIV, ∴ 50V/DIV, 20NS/DIV*  
*TOP: Posit BOT: Neg.*

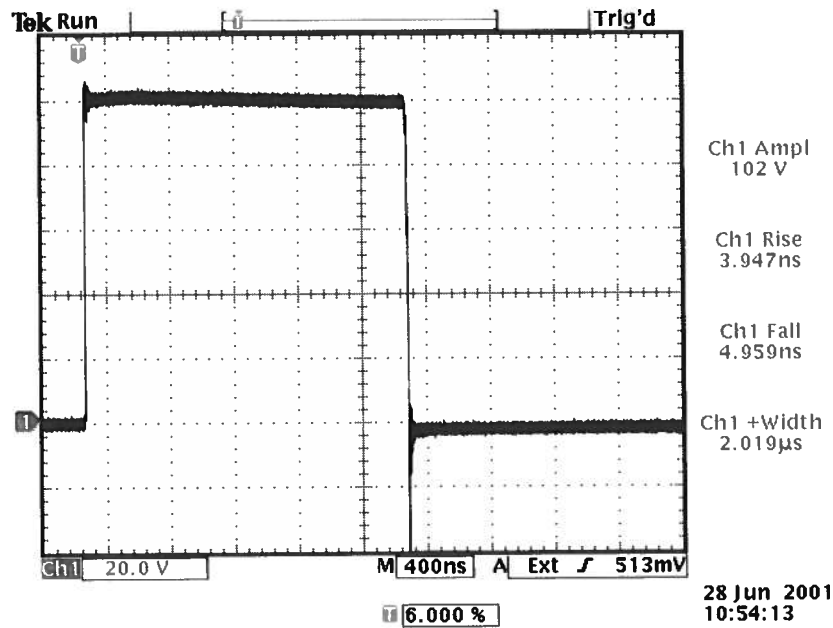
- e) PRF:  
*0 TO 100 KHz.*
- f) Jitter, stability:  
*OK*



- g) Prime power:  
*120/240V, 50-60Hz*

(B) *60 db, ∴ 100V/DIV, 2 NS/DIV*  
*TOP Posit RISE TIME*  
*BOT Negat RISE TIME*

9832  
P<sub>out</sub>,  
WIDE PULSE,  
R<sub>c</sub> = 50 Ω

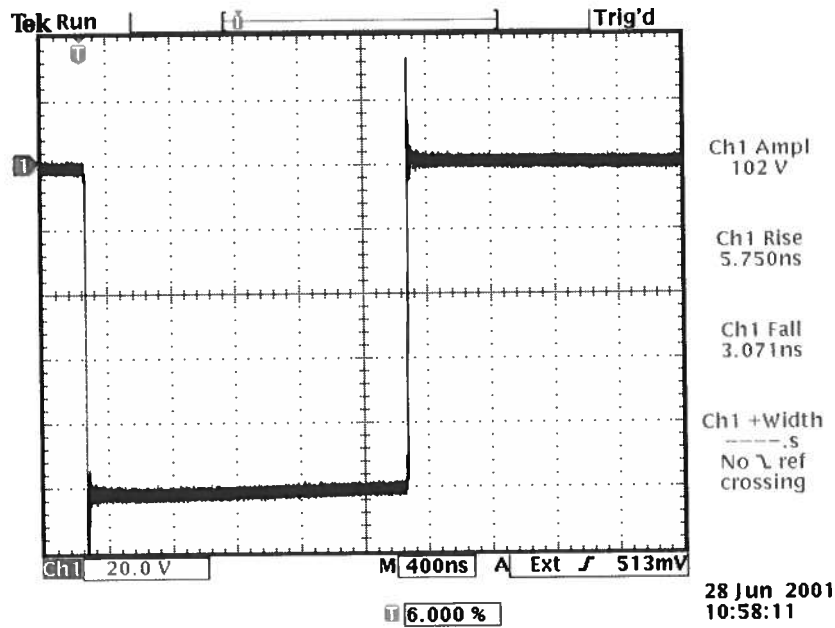


9332

Next

WIDE PULSE

$R_c = 50 \Omega$





# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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CANADA K2C 3H4  
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FAX: (613) 226-2802

## "-B" Functional Test & Calibration Certificate

Date of test:	June 28, 2001				Tester:	MJC
Programmed model name:	AV-1011B1-B					
Programmed serial number:	9832					
Firmware revision:	2.26					
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	10 kHz	100 kHz	
Actual measured output <sup>1</sup> :	0.998 Hz	99.8 Hz	0.998 kHz	9.98 kHz	100.0 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:	100 ns	1 us	10 us	1 ms	50 Hz, +100V	
Actual measured output <sup>2</sup> :	99.1 ns	1.005 us	10.03 us	1.003 ms	to 50 Ohms	
PWin = PWout mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	5%					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	10 us	1 ms	50 Hz, +100V	
Actual measured output <sup>1</sup> :	100.1 ns	0.997 us	10.00 us	1.002 ms	to 50 Ohms	
Double pulse checked:	yes					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	yes					
Amplitude checked at:	-10V	+20V	-50V	+100V	100 Hz, 10 us,	
Actual measured output <sup>2</sup> :	-10.0V	+20.3V	-49V	+100V	to 50 Ohms	
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	OK					
External amplify mode:	N/A					
Ultraviolet flux removed:	OK					
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:	50 ns					
Circuit Boards:	PS:	93	Main:	108		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	6k		
DC fuses:	Positive:	2A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.44A	Max. Load:	0.76A		
AC fuse:	1A					
Photographed:	yes					

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.