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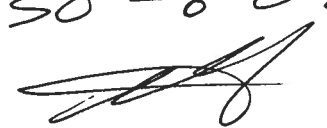
BOX 5120, LCD MERIVALE
 OTTAWA, ONTARIO
 CANADA K2C 3H4
 TEL: (613) 226-5772
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PERFORMANCE CHECKSHEET

Model: *AVD-6C-B-IP*

S.N.: *11104*

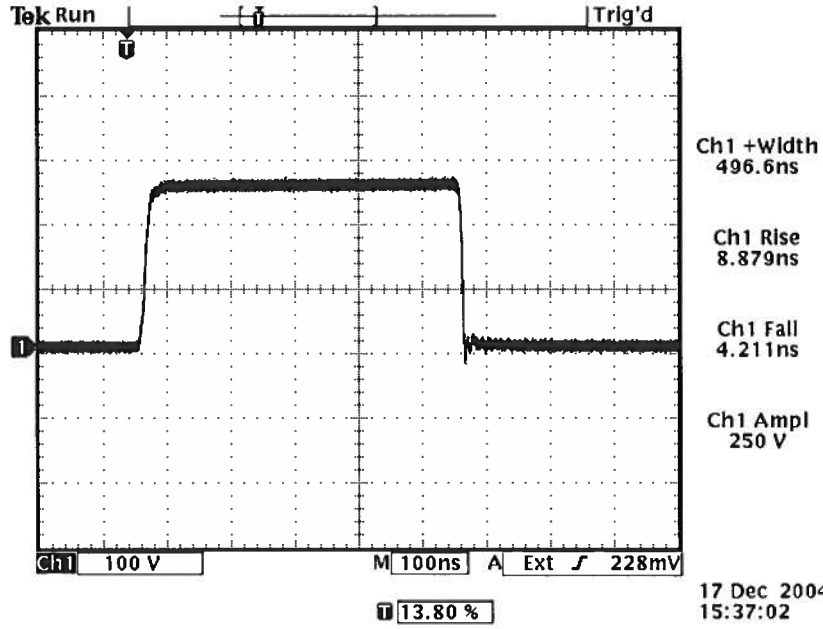
Date: *DEC 17 2004*

- a) Output Signal Amplitude:
0 to +5 AMP
(0 to +250 V to 50 Ω)
- b) Pulse Width(FWHM):
50 ns to 5.0 μs
(1% DUTY CYCLE)
- c) Rise Time (20%-80%):
 $\leq 10 \text{ ns}$
- d) Fall Time (80%-20%):
 $\leq 10 \text{ ns}$
- e) PRF:
0 to 10 KHz
(1% DUTY CYCLE)
- f) Jitter, Stability:
OK
- g) Prime Power:
100 - 240 V
50 - 60 Hz.


(A)

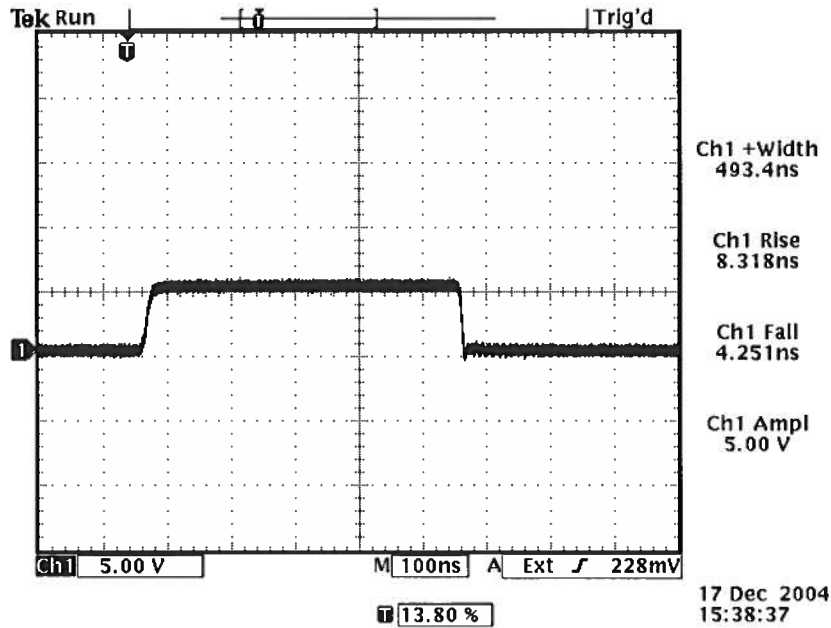
11104

MANFRAME OUT
TO 50 Ω LOAD,
NARROW PULSE.



(B)

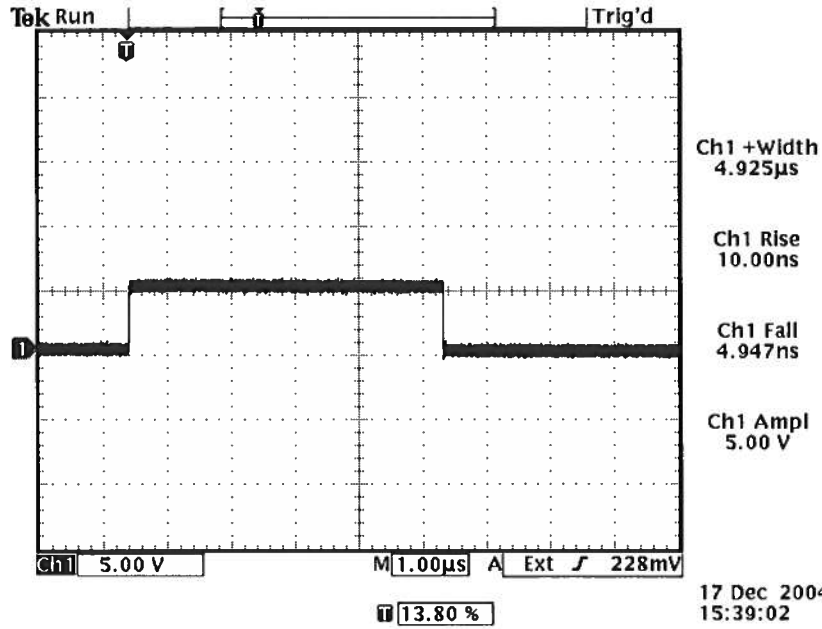
11104



AVO-6C-T OUTPUT TO 1N5819
TEST DIODE. CURRENT MONITORED
USING TEK CT-2 CURRENT
PROBE. 1V = 1 AMP.
NARROW PULSE. PRF = 1 KHz.

Ⓒ

11104



AS Ⓒ BUT WIDE PULSE



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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"-B" Functional Test & Calibration Certificate

Date of test:	December 17, 2004				Tester:	MJC	
Programmed model name:	AVO-6C-B-P						
Programmed serial number:	11104	MAC address:	N/A				
Firmware revision:	3.12						
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz		
Actual measured output ¹ :	1.002 Hz	10.03 Hz	100.4 Hz	1.003 kHz	10.03 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:	50 ns	500 ns	5 us		100 Hz, +250V to 50 Ohms		
Actual measured output ² :	48.8 ns	491 ns	4.93 us				
PW _{in} = PW _{out} mode checked:	N/A		DC mode checked:				N/A
Duty Cycle Limit:	1%						
Delay nulled:	Yes						
Delay checked at:	100 ns	1 us	10 us	100 us	100 Hz, +250V to 50 Ohms		
Actual measured output ¹ :	100.0 ns	0.998 us	9.997 us	99.96 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:	+50V	+100V	+250V	100 Hz, 5 us to 50 Ohms			
Actual measured output ² :	+49.7V	+100.0V	+250V				
Amplitude polarity:	+						
Zout calibration:	N/A						
Electronic amplitude control:	N/A						
External amplify mode:	N/A						
Bleeder resistors adequate:	Yes						
Burst mode:	N/A						
Monitor V/I Ratio:	N/A		Monitor offset nulled:				
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		Telnet control checked:				N/A
LCD pull-ups installed:	N/A						
PCB 108H oscillator buffer resistor:	N/A		PW, delay bias (1k/604/108H or 2k/604/108M):		2k/604/108M		
PRF/PW/Delay leakage current:	OK						
PN trigger pull-downs installed:	N/A						
Sync pulse width checked:	100 ns nominal						
Circuit Boards:	PS:	158G	Main:	108M4			
Overload Trigger Resistance:	Trips at:	8.1k	Installed:	7.5k			
DC fuses:	Main:	1.6A	Overload:	1A			
AC Current:	Quiescent:	0.24A @ 115V 0.17A @ 230V	Max. Load:	0.41A @ 115V 0.24A @ 230V			
AC fuse:	0.5A						
1.5 kV _{RMS} , 5s, switch on, Hypot Test:	OK						
25A RMS Ground Continuity Test:	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 (Cal. Label 112506) for PW < 5 ns.