

PULSE GENERATOR
PERFORMANCE CHECK

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

S.N.: *10363*

Date: *AUG 14 2002*

- a) Output signal amplitude:
0 TO +5.0 AMP
(+250V TO 500V)
- b) Pulse width:
50NS TO 5.0US
(10% MAX DUTY CYCLE)
- c) Rise time:
≤ 10 NS
- d) Fall time:
≤ 10NS
- e) PRF: *0 TO 10 KHz*
(10% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:
120/240V
50-60 Hz
[Signature]

Ⓟ

10363

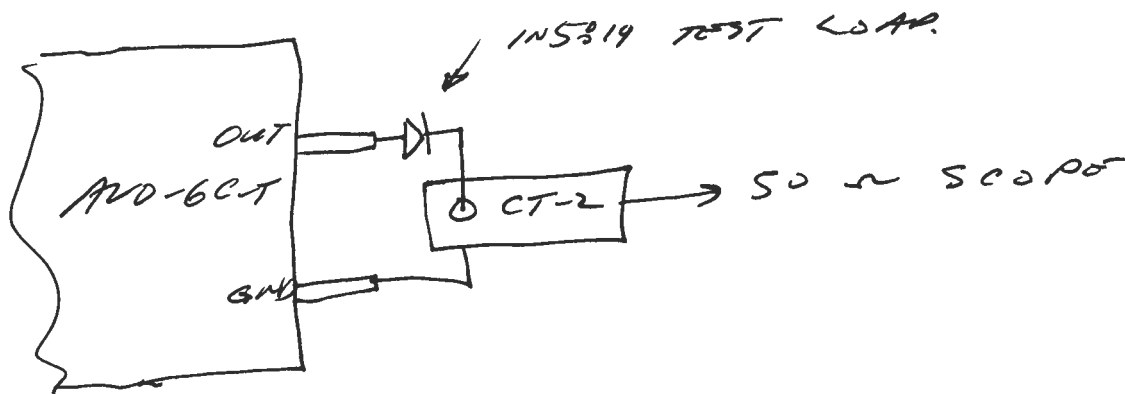
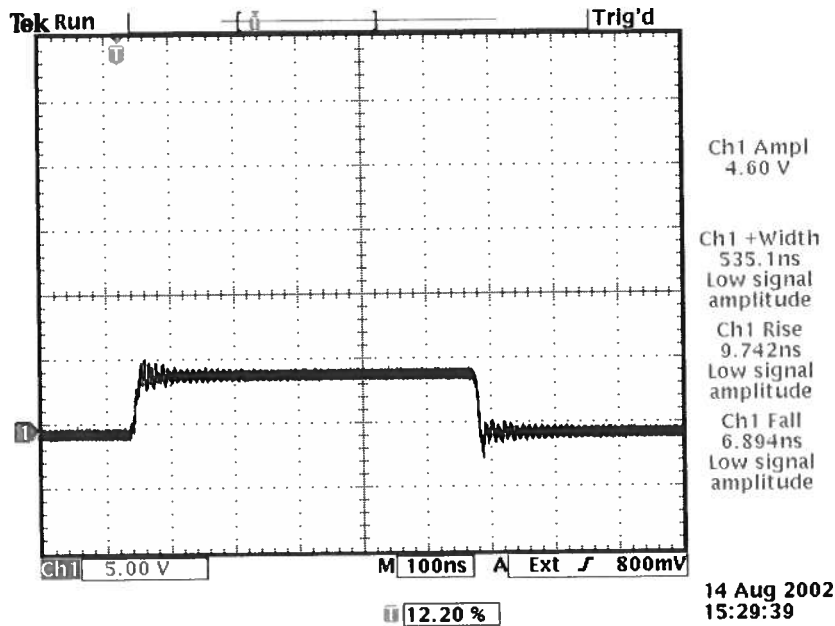
NARROW PULSE

TEK CT-2 CURRENT PROBE
OUTPUT.

≈ 5 AMP/DIV

100 NS/DIV

10 KHz PRT



(B)

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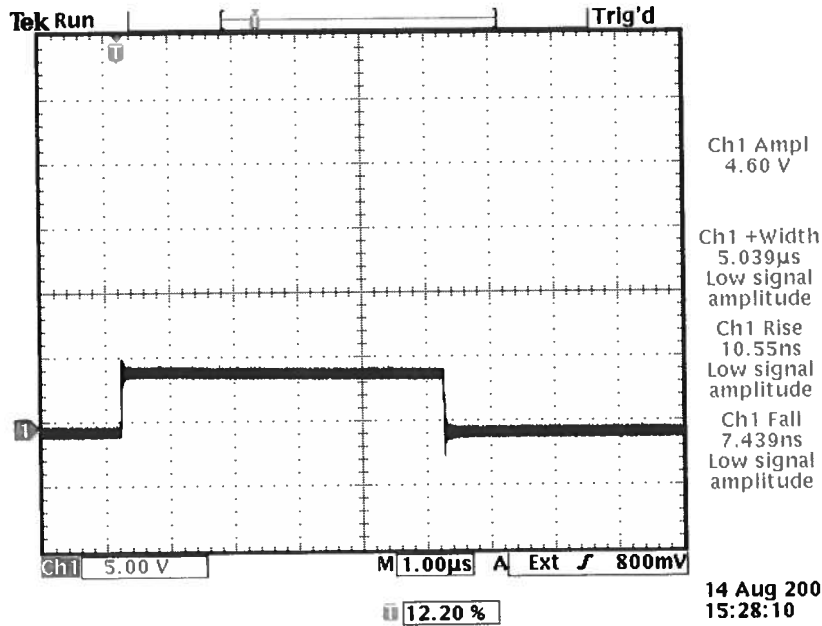
WIDE PULSE

TEK CT-2 CURRENT PROBE
OUTPUT

≈ 5 AMP/DIV

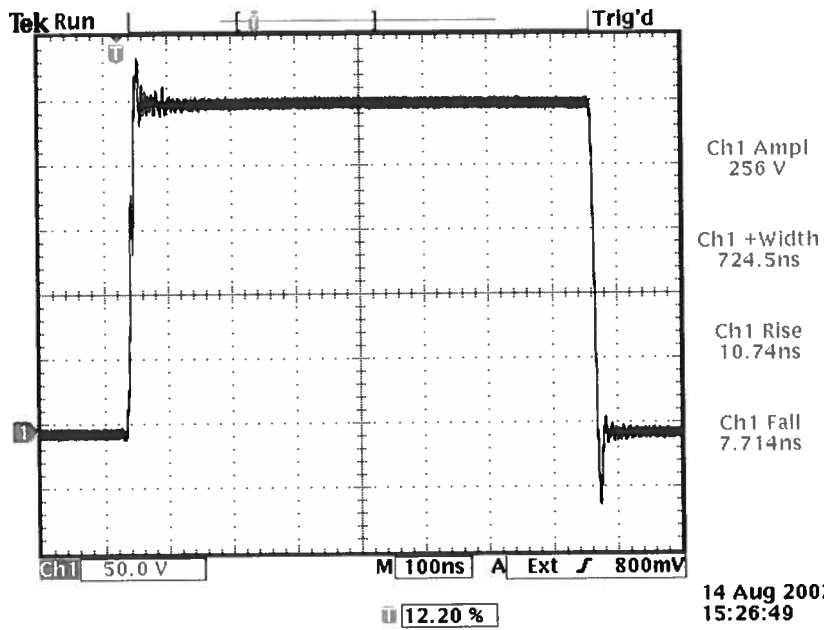
1 μS/DIV

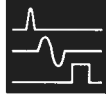
1 KHz PAF



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MANIFOLD OUT
TO 50 Ω (NO AVO-6CT)
PRF = 10 KHz.



AVTECH**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:	August 14, 2002				Tester:	MJC
Programmed model name:	AVO-6C-B-P					
Programmed serial number:	10363					
Firmware revision:	2.41					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	1.006 Hz	10.07 Hz	100.7 Hz	1.008 kHz	10.04 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	1 kHz, +250V to 50 Ohms		
Actual measured output ² :	51 ns	501 ns	5.04 us			
PWin = PWout mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	1%					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	5 us	1 kHz, +250V to 50 Ohms		
Actual measured output ¹ :	100 ns	1.00 us	5.04 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:	+25V	+50V	+100V	+250V	1 kHz, 5 us to 50 Ohms	
Actual measured output ² :	+24.9V	+50.2V	+100.4V	+251		
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Bleeder resistors adequate:	220k					
Ultraviolet flux removed:	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					
LCD pull-ups installed:	yes					
Sync pulse width checked:	yes, 200 ns					
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:	0.41A	Max. Load:	0.69A		
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.