

PULSE GENERATOR
PERFORMANCE CHECK

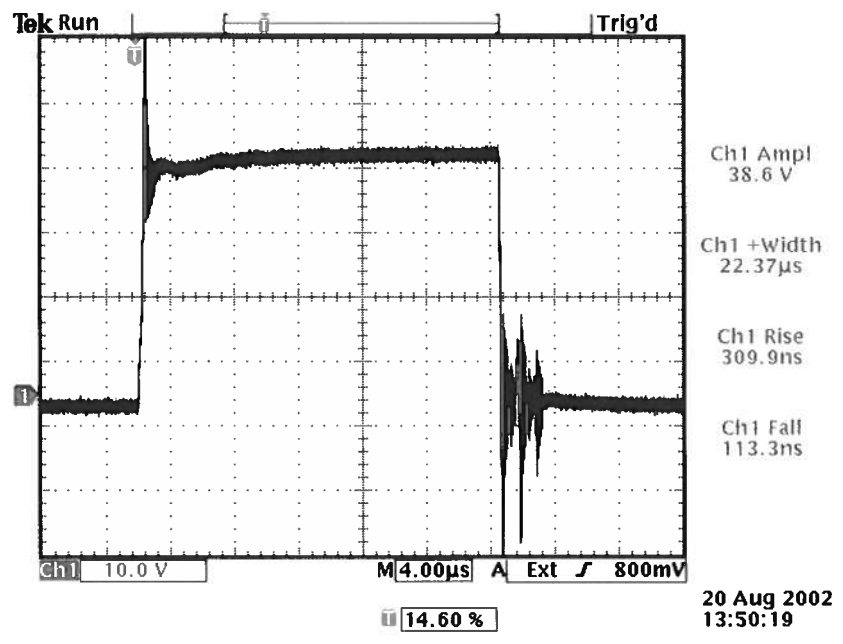
Model: *AVO-BC-M-B-T*
S.N.: *10285**
Date: *AUG 21 2002*

- a) Output signal amplitude:
0 TO +40V TO RL \geq 0.2 Ω
(200 AMP MAX)
- b) Pulse width:
2 μ S TO 20 MS (+DC)
- c) Rise time:
 \leq 1.0 μ S
- d) Fall time:
 \leq 1.0 μ S
- e) PRF:
0 TO 1 KHz
- f) Jitter, stability:
OK
- g) Prime power:
Ⓐ 120/240V, 50-60 Hz
Ⓑ 0 TO +40 VDC
100 AMP LAB
POWER SUPPLY

** - PG UNIT SHIPPED WITH
AB 6 AR-S/9,4 CONNECTORS
REPLACING THE STANDARD
BANANA OUTPUT CONNECTORS*

17

10285
NARROW PULSE
 $R_L = 0.2 \Omega$
LOAD VOLTAGE
 $V_{OC} \approx +40 \text{ VOLTS}$
 $f_{HF} = 100 \text{ MHz}$



(B)

10285

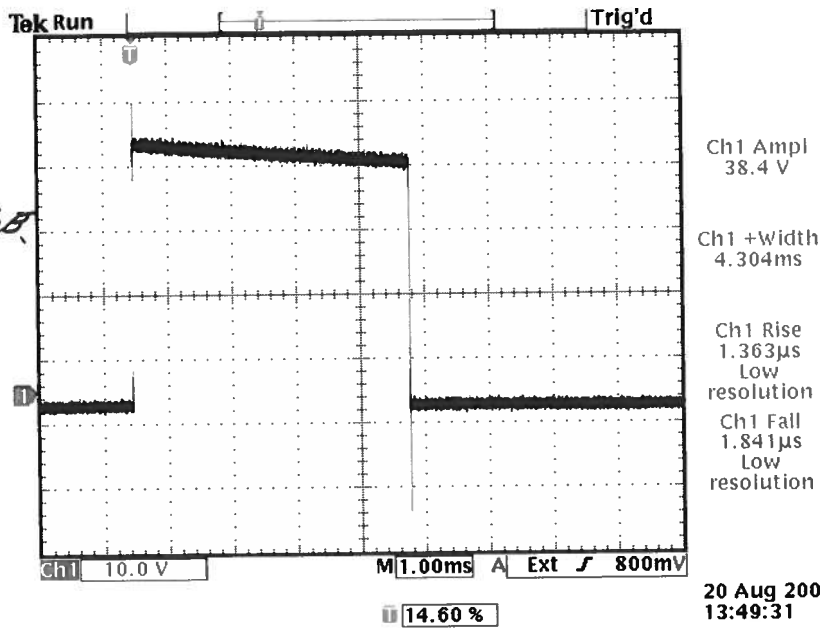
WIDE PULSE HIGH DUTY CYCLE

$R_L = 0.2 \Omega$

PRF ≈ 100 Hz

$V_{DC} \approx +40$ Volts (70 Amperes)

LOAD
VOLTAGE



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"-B" Functional Test & Calibration Certificate

Date of test:	August 21, 2002				Tester:	MJC
Programmed model name:	AVO-8C-B-M-P					
Programmed serial number:	10285					
Firmware revision:	2.41					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz		
Actual measured output ¹ :	0.999 Hz	9.994 Hz	99.98 Hz	0.999 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:	2 us	20 us	200 us	20 ms	at TTL trigger	
Actual measured output ² :	2.02 us	20.2 us	201.6 us	20.1 ms		
PWin = PWout mode checked:	yes	DC mode checked:			yes	
Duty Cycle Limit:	100%					
Delay nulled:	yes, at TTL trigger point					
Delay checked at:	200 ns	2 us	200 us	20 ms	20 Hz, 2 us	
Actual measured output ¹ :	200.9 ns	2.01 us	201.3 us	20.1 ms	PW	
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 ² :	N/A					
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Bleeder resistors adequate:	N/A					
Ultraviolet flux removed:	N/A					
Monitor V/I Ratio:	1V/100A	Monitor offset nulled:			yes	
LCD Monitor calibrated:	yes					
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:	200 ns nom					
Circuit Boards:	PS:	93	Main:	108D		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A		
DC fuses:	Positive:	N/A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.50A	Max. Load:	N/A		
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.