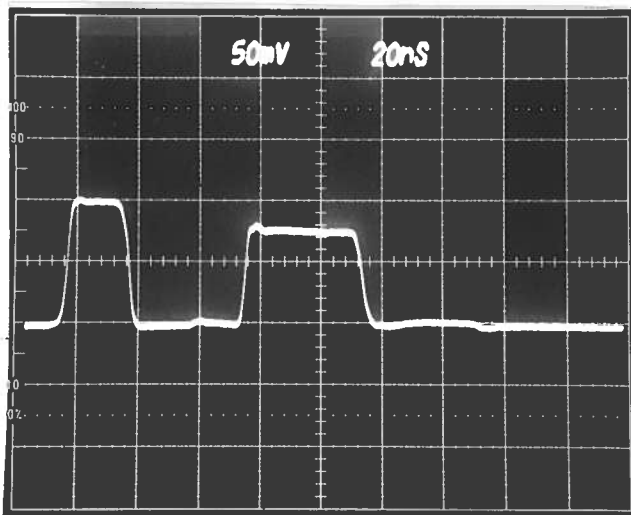


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVO-2W-B-DP-N6C*

S.N.: *10608*

Date: *JUNE 4 2003*



- a) Output signal amplitude: *0 TO +100 VOLTS TO 50Ω (2 AMPS)*
- b) Pulse width: *10 TO 40 NS*
- c) Rise time: *≤ 1.5 NS*
- d) Fall time: *≤ 2.0 NS*
- e) PRF: *0 TO 10 KHz.*
- f) Jitter, stability: *OK*
- g) Prime power: *120/240 V*

60 dB ATTN. ∴ 50 VOLTS/DIV

BW = 10 KHz.

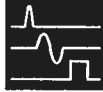
V₁: 2100 VOLTS, 20 NS

V₂: ≈ 75 VOLTS 40 NS

DELAY ≈ 60 NS.

50-60 KHz

[Signature]

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"-B" Functional Test & Calibration Certificate

Date of test:	June 4, 2003				Tester:	MJC
Programmed model name:	AVO-2W-B-DP-NGC					
Programmed serial number:	10608					
Firmware revision:	2.49					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	1.000 Hz	10.01 Hz	100.1 Hz	1.001 kHz	9.994 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:	CH1: 10 ns	CH1: 40 ns	CH2: 10 ns	CH2: 40 ns	10 kHz, +100V to 50 Ohms	
Actual measured output ² :	9.9 ns	40.0 ns	10.0 ns	40.2 ns		
PW in = PW out mode checked:	N/A	DC mode checked:			N/A	
Duty Cycle Limit:	N/A					
Delay nulled:	yes (Zero setting = 60 ns actual. All settings shifted by 60 ns)					
Delay checked at:	0 ns	2.1 us			10 kHz, +100V to 50 Ohms	
Actual measured output ¹ :	60 ns	2.19 us				
Double pulse checked:	yes					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	CH1: +10V	CH1: +100V	CH2: +10V	CH2: +100V	10 kHz, 40 ns to 50 Ohms	
Actual measured output ² :	+10.2V	+102V	+9.6V	+102V		
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:	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					
PN trigger pull-downs installed:	N/A					
PW stable during amplitude changes:	yes					
Sync pulse width checked:	200 ns nom					
Circuit Boards:	PS:	93	Main:	108G		
Overload Trigger Resistance:	Trips at:	54k	Installed:	39k		
DC fuses:	Positive:	0.25A	Negative:	N/A		
AC Current:	Quiescent:	0.379A@115V 0.189A@230V	Max. Load:	0.413A@115V 0.206A@230V		
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.