

PULSE GENERATOR
PERFORMANCE CHECK

Model: *AM-5B-B-PN*

S.N.: *10198*

Date: *MAY 08 02*

- a) Output signal amplitude:
0 to ± 500 V
- b) Pulse width: *(≥ 50 ns)*
0.1 to 100 μ s
- c) Rise time: *(\geq MAX DUTY CYCLE)*
 ≤ 30 ns
- d) Fall time:
 ≤ 30 ns
- e) PRF:
0 to 10 kHz
- f) Jitter, stability:
- g) Prime power: *OK*

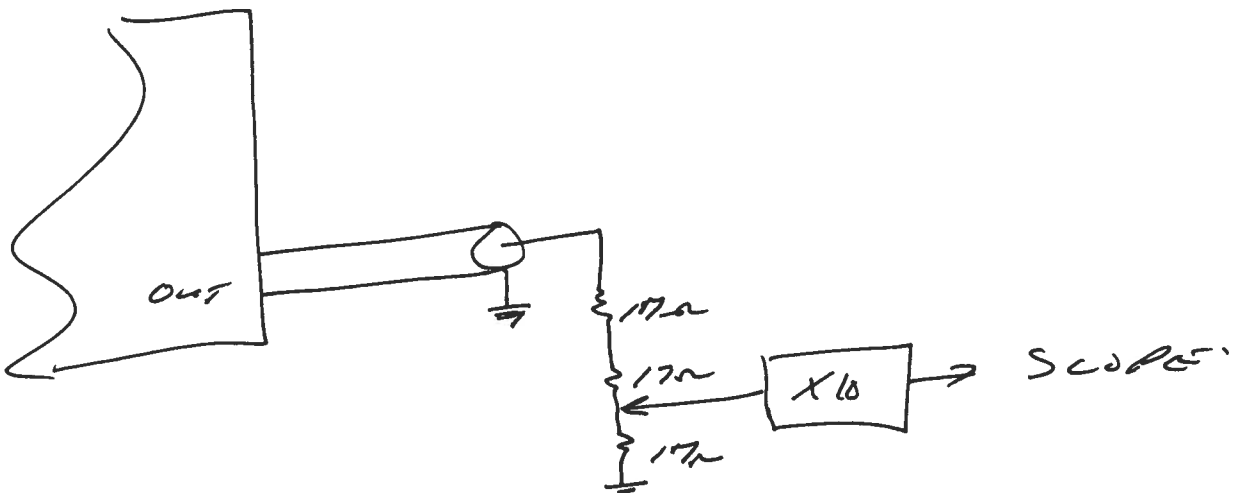
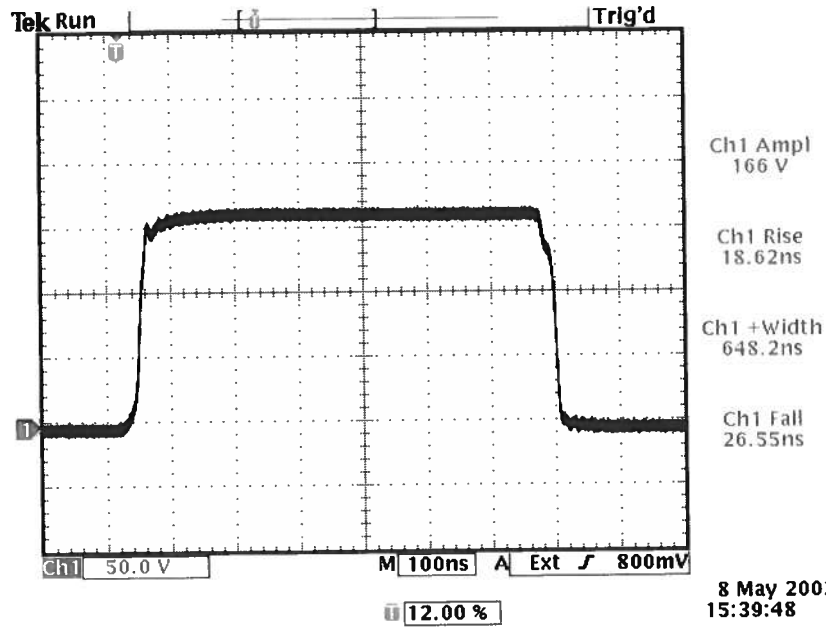
120/240 V

50-60 Hz



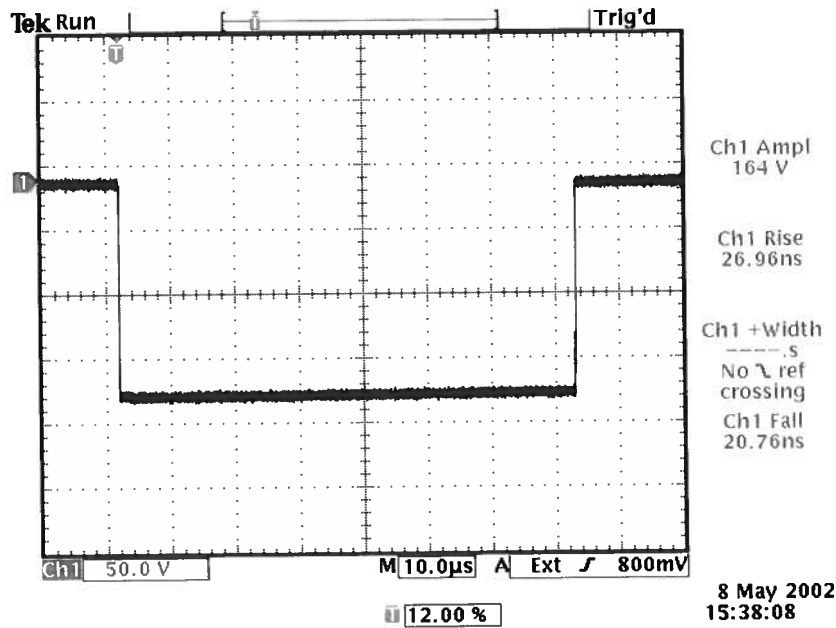
(A)

10198
NARROW PULSE
 $R_c = 50 \Omega$
PBF = 1 KTR



(B)

10198
WIDE PULSE
 $R_L = 50 \Omega$
PRF = 10 MHz



LOAD AS PER (A)



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:	May 8, 2002				Tester:	MJC
Programmed model name:	AVR-5B-B-PN					
Programmed serial number:	10198					
Firmware revision:	2.39					
Temp, RH:	25.9°C, 30.0%					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	1.004 Hz	10.04 Hz	100.5 Hz	1.002 kHz	10.01 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	100 us	10 Hz, +500V	
Actual measured output ² :	98.8 ns	0.998 us	10.01 us	100.4 us	into 50 Ohms	
PWin = PWout mode checked:	yes	DC mode checked:			N/A	
Duty Cycle Limit:	1%					
Delay nulled:	yes					
Delay checked at:	100 ns	1 us	10 us	100 us	10 Hz, +500V	
Actual measured output ¹ :	101.6 ns	1.003 us	10.00 us	100.3 us	into 50 Ohms	
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	-10V	+50V	-200V	+500V	10 Hz, 1 us into 50 Ohms	
Actual measured output ² :	-10.1V	+50.6V	-202V	+504V		
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	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:	OK					
Sync pulse width checked:	200 ns nom					
Circuit Boards:	PS:	93	Main:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	1.5k 1000 uF		
DC fuses:	Positive:	3A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.43A	Max. Load:	1.1A		
AC fuse:	1.5A					
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.