

PULSE GENERATOR
PERFORMANCE CHECK

Model: *MR-7B-B-P-QTKA*

S.N.: *10174*

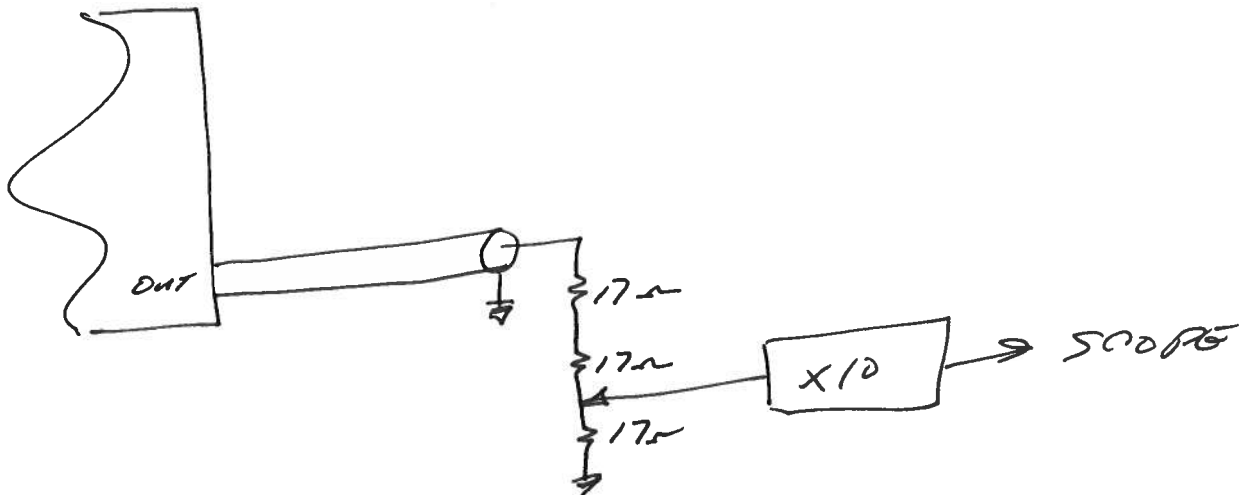
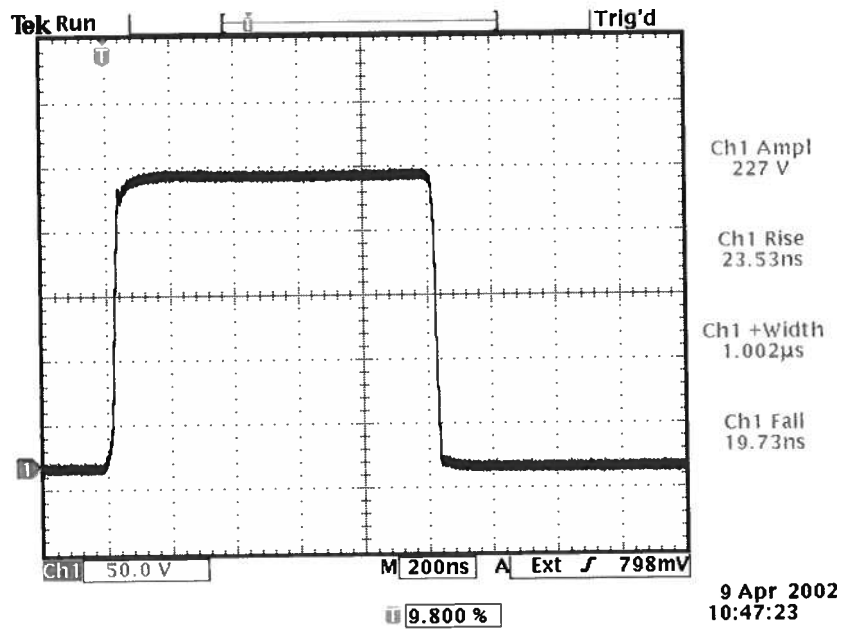
Date: *APRIL 8 2002*

- a) Output signal amplitude:
0 TO + 700 VOLTS
- b) Pulse width:
100 NS TO 1.0 SEC.
(0.5% MAX DUTY CYCLE)
- c) Rise time:
≤ 30 NS
- d) Fall time:
≤ 30 NS
- e) PRF: *0 TO 10 KHZ*
(0.5% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:
120/240V
50-60 HZ



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10174
 $R_c = 50 \Omega$
PBF = 100 MHz
NARROW PULSES



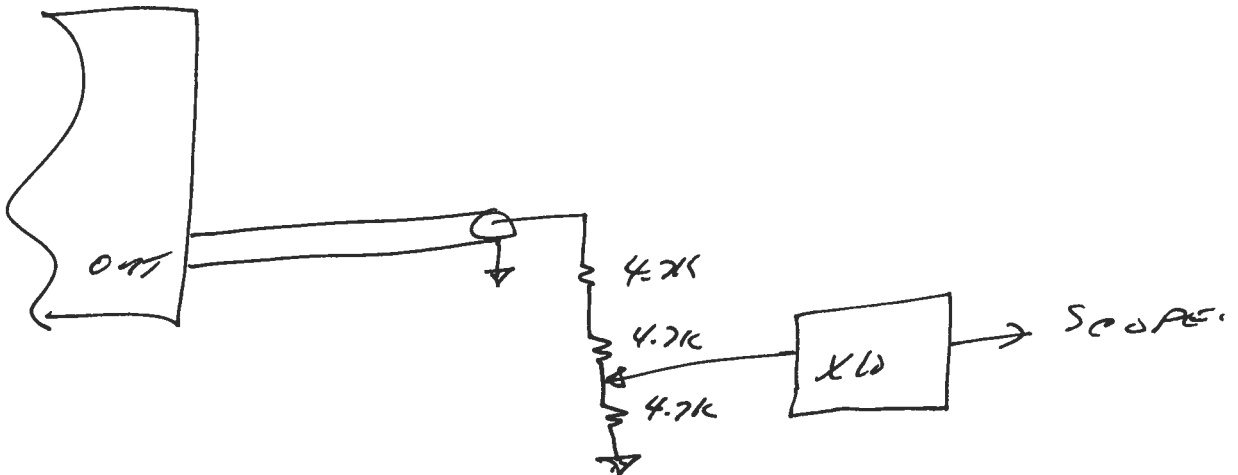
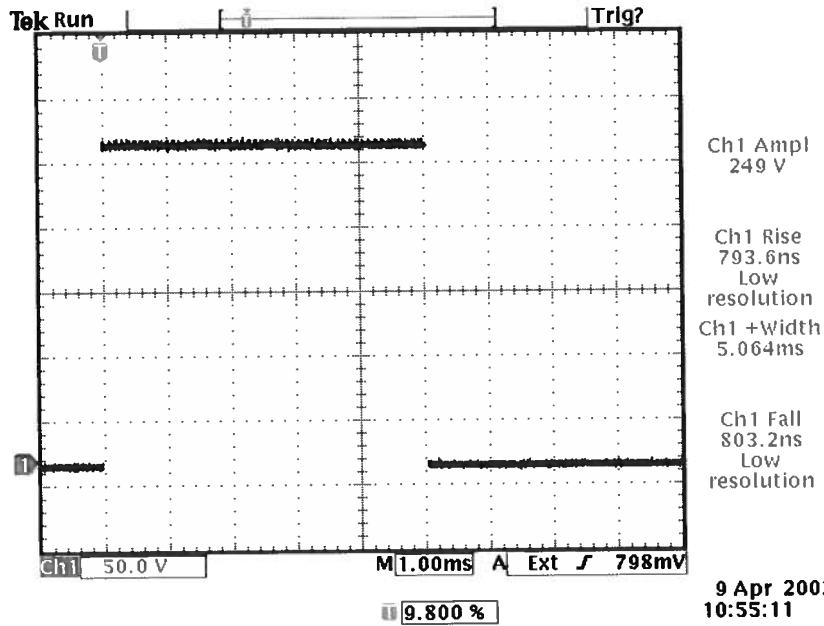
(B)

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$R_c = 15K$

PRF = 1 Hz

WIDE PULSE



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"-B" Functional Test & Calibration Certificate

Date of test:	April 8, 2002				Tester:	MJC
Programmed model name:	AVR-7B-B-P-QTKA					
Programmed serial number:	10174					
Firmware revision:	2.38					
Temp, RH:	24.1°C, 24.8%					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	10 kHz	
Actual measured output ¹ :	1.000 Hz	10.00 Hz	100.0 Hz	1.000 kHz	9.995 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	10 us	1 ms	single pulse, +700V to 50 Ohms		
Actual measured output ² :	101.3 ns	10.02 us	1.003 ms			
PW _{in} = PW _{out} mode checked:	yes			DC mode checked:	N/A	
Duty Cycle Limit:	0.5%					
Delay nulled:	yes					
Delay checked at:	100 ns	10 us	1 ms	single pulse, +700V to 50 Ohms		
Actual measured output ¹ :	101.8 ns	10.02 us	1.002 ms			
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	+100V	+300V	+500V	+700V	1 Hz, 1 us to 50 Ohms	
Actual measured output ² :	+102V	+303V	+503V	+697V		
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:	yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	1.5k 1000uF		
DC fuses:	Positive:	3A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.36A	Max. Load:	1.2A		
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.