

PULSE GENERATOR
PERFORMANCE CHECK

Model: *MV 1011-B*

S.N.: *9140*

Date: *DEC 13 1999*

- a) Output signal amplitude:
0 TO ± 100 VOLTS
- b) Pulse width: *(R_L ≥ 50Ω)*
0.1 μS TO 1 μS
- c) Rise time: *(10% MIN DUTY CYCL)*
≤ 10 NS
- d) Fall time:
≤ 10 NS
- e) PRF: *0 TO 1 MHz*
(10% MIN DUTY CYCL)
- f) Jitter, stability:
OK
- g) Prime power: *120/200 V*
50-6 MHz



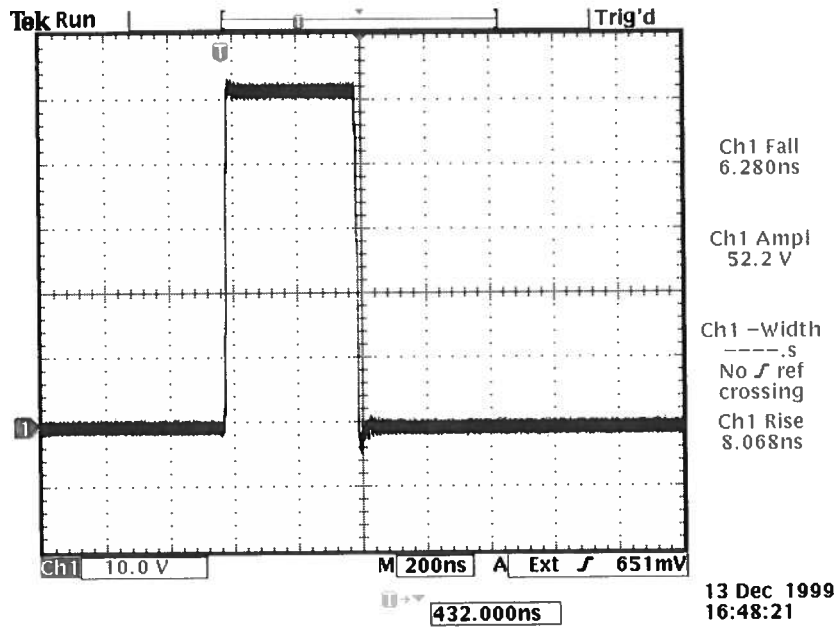
9140

PRF = 100 KHz

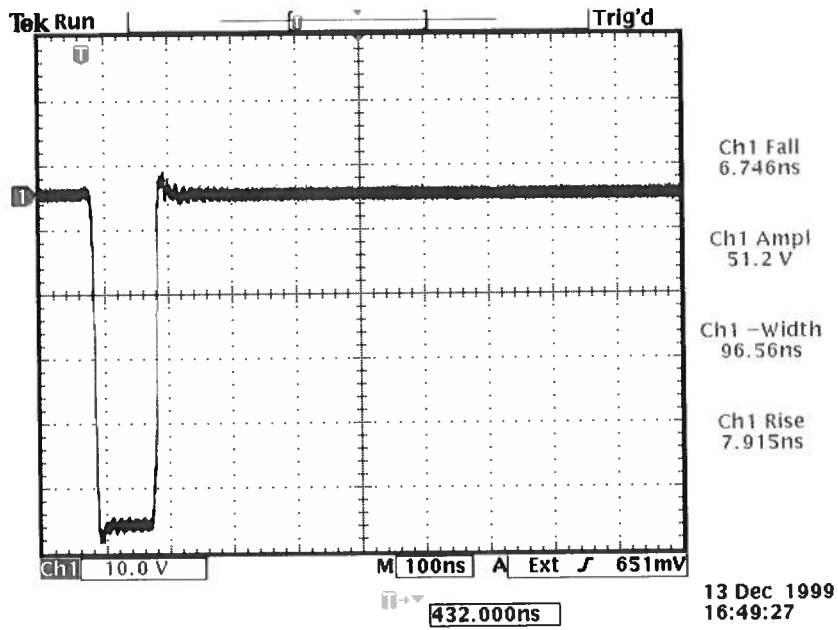
$Z_{out} = 50\Omega$

$R_L = 50\Omega$

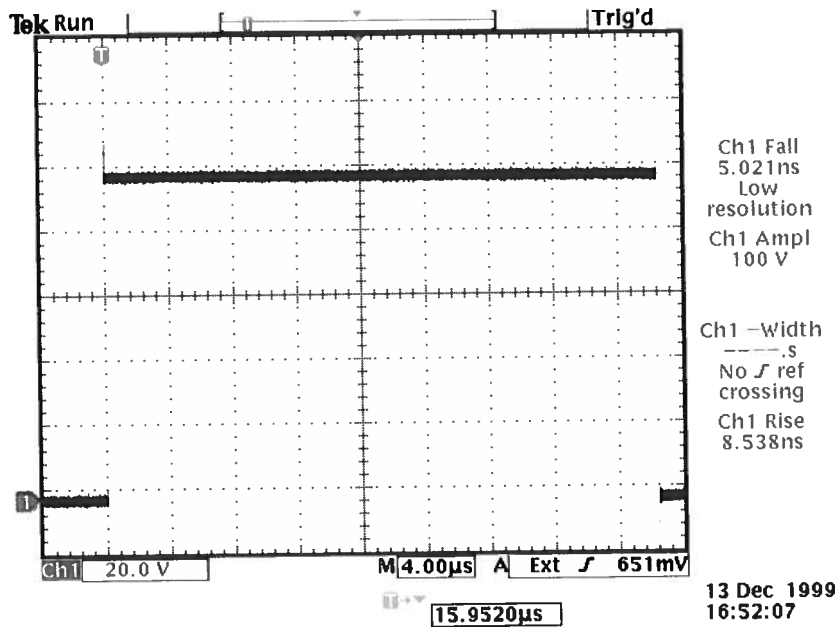
POS OUT



9140
PRF = 1.0 MHz
 $Z_{out} = 50\Omega$
 $R_L = 50\Omega$
NEG OUT



9140
PRF \approx 1K170
 $Z_{out} = 2 \Omega$
 $R_c = 50 \Omega$
POS OUT





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"-B" Functional Test & Calibration Certificate

Date of test:	December 13, 1999				Tester:	MJC	
Programmed model name:	AV-1011-B						
Programmed serial number:	9140						
Firmware revision:	2.09						
Internal trigger checked at:	0.1 Hz	10 Hz	1 kHz	100 kHz	1 MHz		
Actual measured output ¹ :	0.099 Hz	9.99 Hz	998 Hz	100.0 kHz	1.00 MHz		
External trigger checked:	Yes					Gate checked:	Yes
Trigger load resistor present:	Yes						
Manual trigger checked:	Yes						
Pulse compression checked:	Yes						
Pulse width checked at:	100 ns	10 us	1 ms	At +100V into 50 Ohms			
Actual measured output ² :	98.0 ns	9.95 us	1.00 ms				
PWin = PWout mode checked:	Yes					DC mode checked:	N/A
Duty Cycle Limit:	10% at max load, 80% for loads >10 kΩ						
Delay nulled:	Yes						
Delay checked at:	1 us	10 us	100 us	1 ms	At +100V into 50 Ohms		
Actual measured output ¹ :	0.997 us	9.98 us	100.1 us	1.004 ms			
Double pulse checked:	Yes						
Invert mode checked:	N/A						
ECL/TTL modes checked:	N/A						
Zout switch checked:	Yes						
Amplitude checked at:	+10V	-20V	+50V	-100V	At 1 kHz, 10us		
Actual measured output ² :	+9.92V	-20.0V	+50.4V	-100.8V	PW, into 50Ω		
Amplitude polarity:	+/-						
Zout calibration:	N/A						
Electronic amplitude control:	Yes						
External amplify mode:	N/A						
Ultravolt flux removed:	Yes						
Monitor V/I Ratio:	N/A			Monitor offset nulled:			
LCD Monitor calibrated:	N/A			Monitor offset nulled:			
Mon. Single Pulse/Min PW OK:	N/A			SHA Cap:			
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:	108			
Overload Trigger Resistance:	Trips at:	N/A	Installed:	4k			
DC fuses:	Positive:	2A	Negative:	N/A			
AC Current at 115 VAC:	Quiescent:	0.41A	Max. Load:	0.82A			
Photographed:	No						

¹ Checked with: HP5370A Universal Time Interval Counter

² Checked with: Tektronix TDS360 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.