

(A)

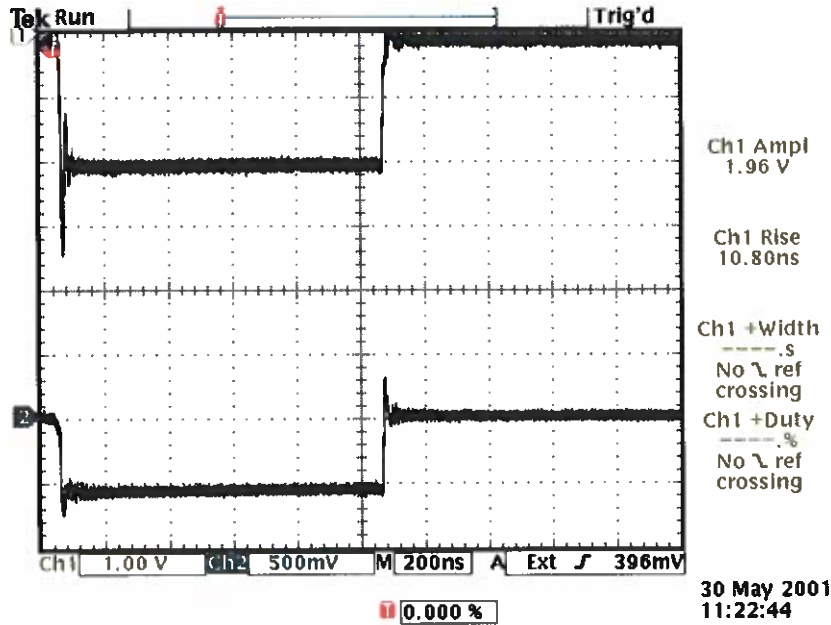
9759

low current.

$$R_c = 3.3 \Omega$$

$$I \approx 0.7 \text{ Amp}$$

$$P_{RF} = 1 \text{ kW}$$



③

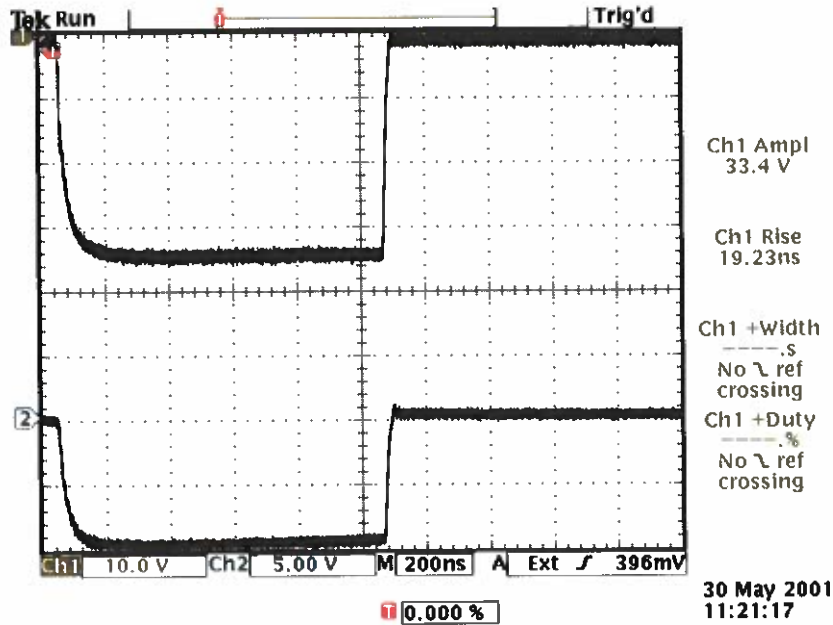
9759

HIGH CURRENT

$$R_c = 3.3 \Omega$$

$$I \approx 10 \text{ Amp.}$$

$$PRF = 1 \text{ KHz}$$





AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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 30, 2001				Tester:	MJC
Programmed model name:	AV-107C-B-N					
Programmed serial number:	9759					
Firmware revision:	2.25					
Internal trigger checked at:	1 Hz	10 Hz	100 Hz	1 kHz	5 kHz	
Actual measured output ¹ :	1.007 Hz	10.01 Hz	100.2 Hz	0.998 kHz	5.006 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	200 ns	500 ns	1 us	10 Hz, -10A to 3.3 Ohms	
Actual measured output ² :	99.9 ns	200.2 ns	505 ns	1.000 us		
PWin = PWout mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	N/A					
Delay nulled:	yes					
Delay checked at:	100 ns	200 ns	500 ns	1 us	10 Hz, -10A to 3.3 Ohms	
Actual measured output ¹ :	99.7 ns	199.4 ns	504 ns	0.999 us		
Double pulse checked:	N/A					
Invert mode checked:	N/A					
ECL/TTL modes checked:	N/A					
Zout switch checked:	N/A					
Amplitude checked at:	-1A	-2A	-5A	-10A	100 Hz, 1 us, into 3.3 Ohms	
Actual measured output ² :	-1.00A	-1.98A	-4.94A	-9.97A		
Amplitude polarity:	-					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Ultravolt flux removed:	N/A					
Monitor V/I Ratio:	N/A			Monitor offset nulled:		
LCD Monitor calibrated:	N/A			Monitor offset nulled:		
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:	108B		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	18 kOhm		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.45A	Max. Load:	0.62A		
AC fuse:	1A					
Photographed:	yes					

Checked with: Fluke PM6681 Counter, referenced to Datum ExacTime 9390-6000 GPS Frequency Reference

² Checked with: Tektronix TDS3052 digital oscilloscope for PW ≥ 5 ns,
Tektronix 7704A/7S11/7T11/S4 sampling oscilloscope system for PW < 5 ns.