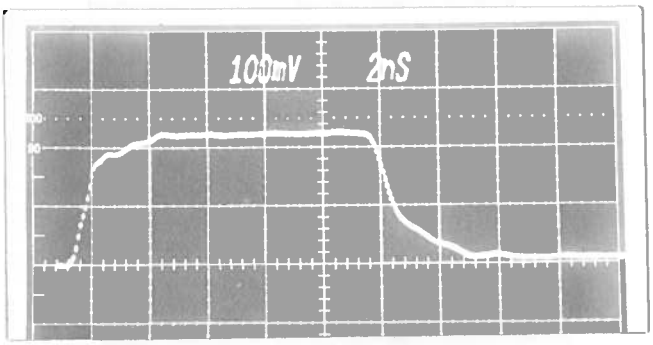
PULSE GENERATOR

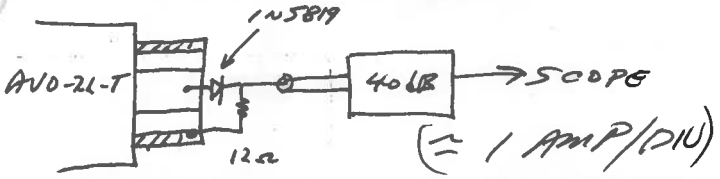
PERFORMANCE CHECK

Model: AVO-2L-B-P

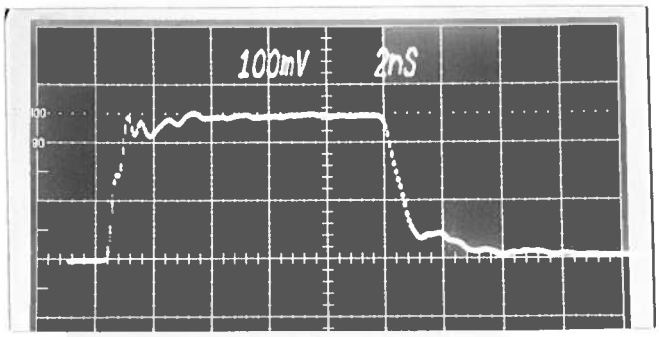
S.N.: 1096

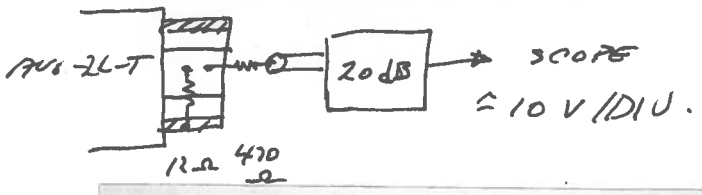
Date: MAY 5 2004



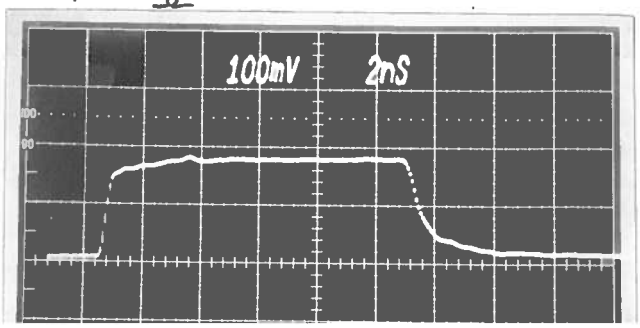


(≈ 1 AMP/DIV)





≈ 10 V/DIV.



a) Output signal amplitude:
0 TO +2 AMP (R_L = 10Ω)

b) Pulse width:
1 TO 20 NS

c) Rise time:
≤ 0.5 NS

d) Fall time:
≤ 0.5 NS

e) PRF:
0 TO 20 KHz.

f) Jitter, stability:
OK

g) Prime power:
100 → 240 V
50 - 60 Hz.

AVO-2L-B MAINFRAME
← OUT @ 50dB (32 V/DIV)
(NO AVO-2L-T).

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/

☒ BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
FAX: (613) 226-2802

"-B" Functional Test & Calibration Certificate

Date of test:	May 5, 2004			Tester:	MJC
Programmed model name:	AVO-2L-B-P				
Programmed serial number:	10916				
Firmware revision:	2.58				
Internal trigger checked at:	2 Hz	20 Hz	200 Hz	2 kHz	20 kHz
Actual measured output[1]:	2.03 Hz	20.3 Hz	202 Hz	2.018 kHz	20.00 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:	1 ns	5 ns	10 ns	20 ns	mainframe out
Actual measured output[2]:	1.1 ns	5.1 ns	10.2 ns	20.1 ns	to 50Ω, 10kHz
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		mainframe out
Actual measured output[1]:	98 ns	199 ns	506 ns		to 50Ω, 10kHz
Double pulse checked:	N/A				
Invert mode checked:	N/A				
ECL/TTL modes checked:	N/A				
Zout switch checked:	N/A				
Amplitude checked at:	+5V	+10V	+25V		10 kHz, 20 ns
Actual measured output[2]:	+0.41A	+0.81A	+2.08A		to 12Ω
Amplitude polarity:	+				
Zout calibration:	N/A				
Electronic amplitude control:	N/A				
External amplify mode:	N/A				
Bleeder resistors adequate:	Yes				
Burst mode:	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:	N/A				
PCB 108G/H resistor updates:	Yes				
PN trigger pull-downs installed:	Yes				
Sync pulse width checked:	100 ns nominal				
Circuit Boards:	PS:	158E	Main:	108H	
Overload Trigger Resistance:	Trips at:	N/A	Installed:	33k	
DC fuses:	Main:	0.8A	Overload:	0.25A	
AC Current:	Quiescent:	0.20A @ 115V 0.16A @ 230V	Max. Load:	0.21A @ 115V 0.16A @ 230V	
AC fuse:	0.5A				
1.5 kV RMS, 5 second Hypot Test:	OK				
25A RMS Ground Continuity Test:	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 (Cal. Label 112506) for PW < 5 ns.