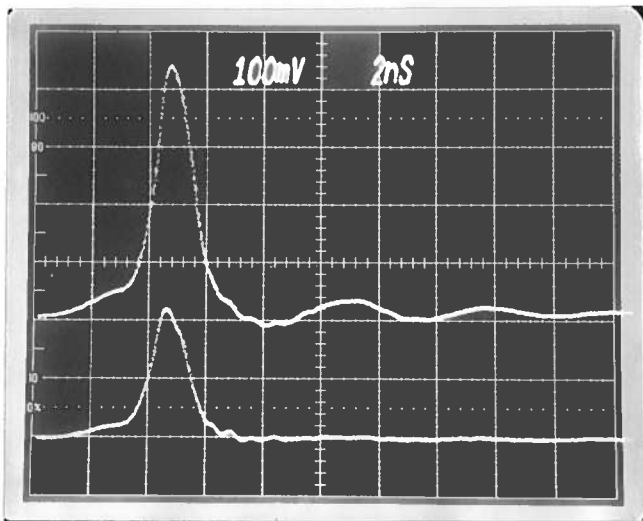


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AV6-3B-B-0A-M-P*

S.N.: *10338*

Date: *Aug 22 2002*



- a) Output signal amplitude:
0 TO +450 VOLTS
- b) Pulse width:
≤ 2 NS (20% RISE POINT)
- c) Rise time:
≤ 0.8 NS
- d) Fall time:
≤ 1 NS
- e) PRF:
0 TO 20 KHz
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V
50-60 Hz

60 dB ATTN

100 VOLTS/DIV

PRF = 10 KHz

TOP MAX OUTPUT

BUT OUTPUT AT MID RANGE.

AVTECH**AVTECH ELECTROSYSTEMS LTD.**NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975
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 OGDENSBURG, NY
 U.S.A. 13669-0265
 TEL: (315) 472-5270
 FAX: (613) 226-2802

 TEL: 1-800-265-6681
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 X 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:	August 22, 2002				Tester:	MJC
Programmed model name:	AVG-3B-B-EA-M-P					
Programmed serial number:	10338					
Firmware revision:	2.41					
Internal trigger checked at:	2 Hz	20 Hz	200 Hz	2 kHz	20 kHz	
Actual measured output ¹ :	1.999 Hz	19.98 Hz	199.6 Hz	1.998 kHz	19.97 kHz	
External trigger checked:	yes			Gate checked:	yes	
Manual trigger checked:	yes					
Pulse compression checked:	N/A		Low Amplitude PW Distortion Nulled:			
Pulse width checked at:	N/A					
Actual measured output ² :	N/A					
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	100 Hz, +450V		
Actual measured output ¹ :	100.2 ns	201 ns	507 ns			
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	+450V	10 kHz, +450V		
Actual measured output ² :	+101V	+296V	+448V			
Amplitude polarity:	+					
Zout calibration:	N/A					
Electronic amplitude control:	OK					
External amplify mode:	N/A					
Bleeder resistors adequate:	N/A					
Ultraviolet flux removed:	N/A					
Monitor V/I Ratio:	20 dB	Monitor offset nulled:				N/A
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:	yes					
PN trigger pull-downs installed:	N/A					
Sync pulse width checked:	200 ns nom					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.40A	Max. Load:	0.46A		
AC fuse:	1A					
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.