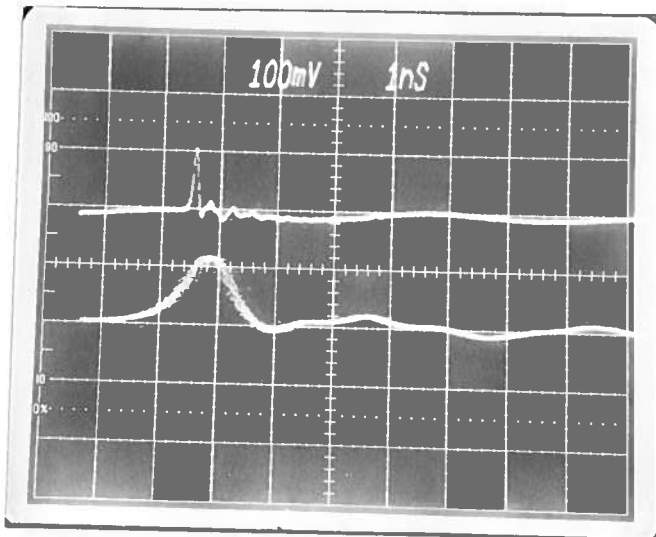


PULSE GENERATOR
PERFORMANCE CHECK

Model: AV14-S-1-B-P-05

S.N.: 10845

Date: Feb 03 2004



- a) Output signal amplitude:
0 TO 740V (70505)
- b) Pulse width:
≤ 130 ps.
- c) Rise time:
NA
- d) Fall time:
NA
- e) PRF: 0 TO 1 MHz.
- f) Jitter, stability:
OK
- g) Prime power:

100 → 240V
50-60 Hz

40 dB ATTN.: 10 V/DIV
TOP 1 ns/DIV
BOT 100 ps/DIV
PRF = 1.0 MHz



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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U.S.A. 13669-0265
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FAX: (613) 226-2802

TEL: 1-800-265-6681
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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:	February 4, 2004					Tester:	MJC
Programmed model name:	AVH-S-1-B-P-OS						
Programmed serial number:	10845						
Firmware revision:	2.56						
Internal trigger checked at:	1 Hz	100 Hz	10 kHz	100 kHz	1 MHz		
Actual measured output ¹ :	1.000 Hz	99.7 Hz	9.94 kHz	99.7 kHz	1.000 MHz		
External trigger checked:	Yes				Gate checked:	Yes	
Manual trigger checked:	Yes						
Pulse compression checked:	N/A		Low Amplitude PW Distortion Nulled:		N/A		
Pulse width checked at:	N/A						
Actual measured output ² :	N/A						
PWin = PWout mode checked:	N/A		DC mode checked:				
Duty Cycle Limit:	N/A						
Delay nulled:	Yes						
Delay checked at:	100 ns	1 us	10 us	100 us	1 kHz, +10V		
Actual measured output ¹ :	100.0 ns	1.000 us	10.01 us	99.7 us	to 50Ω		
Double pulse checked:	N/A						
Invert mode checked:	N/A						
ECL/TTL modes checked:	N/A						
Zout switch checked:	N/A						
Amplitude checked at:	+2V	+5V	+10V		100 kHz, to		
Actual measured output ² :	+1.9V	+5.2V	+10.1V		50Ω		
Amplitude polarity:	+						
Zout calibration:	N/A						
Electronic amplitude control:	N/A						
External amplify mode:	N/A						
Bleeder resistors adequate:	N/A						
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 104C)						
PCB 108G/H resistor updates:	Yes						
PN trigger pull-downs installed:	N/A						
Sync pulse width checked:	100 ns						
Circuit Boards:	PS:	158E	Main:	108H			
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A			
DC fuses:	Positive:	0.8A + spare	Negative:	N/A			
AC Current:	Quiescent:	0.19A @ 115V	Max. Load:	0.20A @ 115V			
		0.16A @ 230V		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.