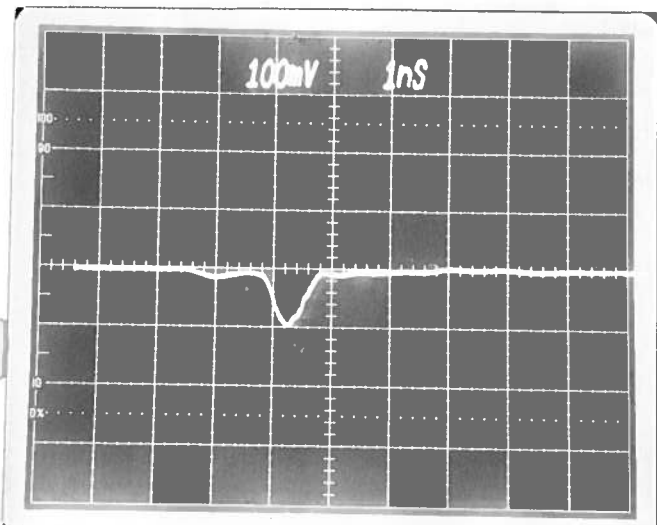


PULSE GENERATOR
PERFORMANCE CHECK

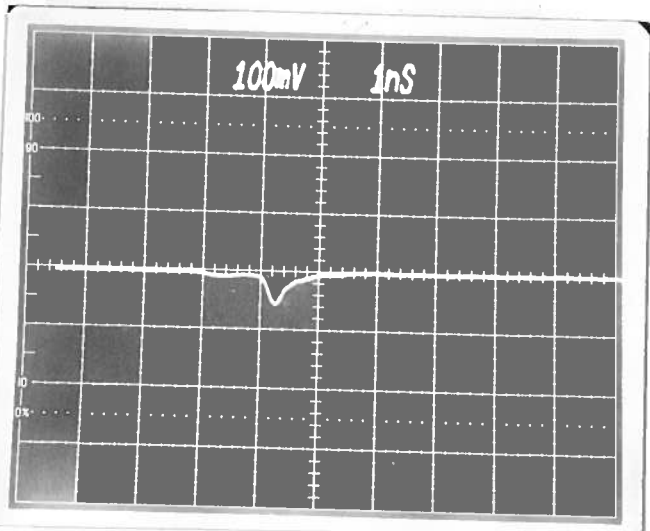
Model: *AVH-MVI-B-05-TI-N*

S.N.: *10846*

Date: *FEB 27 2004*



*60 dB ATTEN - 100V/DIV
OUT PUT NORM MODE
PRF = 100 KHz*



OUTPUT MID-RANGE

- a) Output signal amplitude:
0 TO +100 V (TO 50V)
- b) Pulse width:
≤ 600 ps.
- c) Rise time:
NA
- d) Fall time:
NA
- e) PRF:
0 TO 100 KHz
- f) Jitter, stability:
OK
- g) Prime power:

*100 - 280 V
50 - 60 Hz*

[Signature]



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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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 26, 2004					Tester:	MJC
Programmed model name:	AVH-HV1-B-OS-T1-N						
Programmed serial number:	10846						
Firmware revision:	2.57						
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	10 kHz	100 kHz		
Actual measured output ¹ :	1.003 Hz	100.2 Hz	1.002 Hz	10.04 kHz	100.2 kHz		
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	10 Hz, -100V		
Actual measured output ¹ :	100.1 ns	1.001 us	10.04 us	100.2 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:	-20V	-50V	-100V		10 kHz to 50Ω		
Actual measured output ² :	-21V	-51V	-100V				
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 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:	Main:	0.8A	Overload:	Spare 0.8A			
AC Current:	Quiescent:	0.20A @ 115V	Max. Load:	0.22A @ 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.