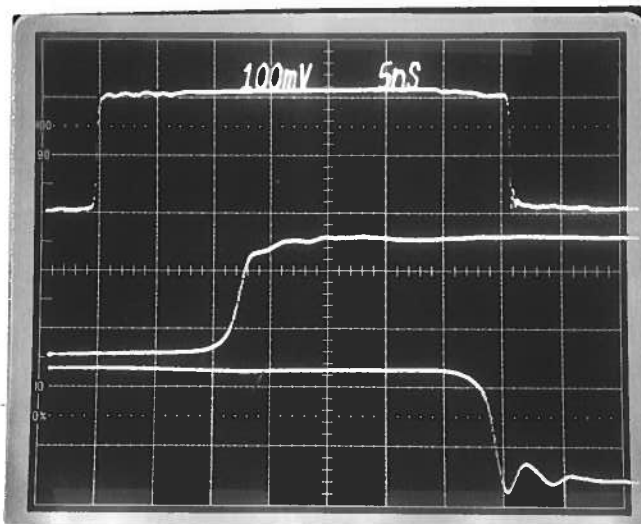


PULSE GENERATOR
PERFORMANCE CHECK

Model: *AVMMP-3-B-P-OT-EUA-R5*

S.N.: *10662*

Date: *APR 21 2003*



40 dB ATTEN - 10 V/DIV

TOP 5 NS/DIV

MID 500ps/DIV (RISE TIME)

BOT 500ps/DIV (FALL TIME)

RF = 100 KHz

DC OFFSET: 0 VOLTS

- a) Output signal amplitude:
0 to +20 V (70.50 n)
- b) Pulse width:
8 to 100 ns
- c) Rise time:
≤ 200 ps
- d) Fall time:
≤ 300 ps
- e) PRF:
0 to 10 MHz
- f) Jitter, stability:
OK
- g) Prime power:
120/240 V
50-60 Hz
- h) DC OFFSET: *0 to ±10V*
200mA (MAX)



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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OTTAWA, ONTARIO
CANADA K2C 3H4
TEL: (613) 226-5772
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"-B" Functional Test & Calibration Certificate

Date of test:	August 21, 2003				Tester:	MJC
Programmed model name:	AVMP-3-B-P-OT-ELA-R5					
Programmed serial number:	10662					
Firmware revision:	2.53					
Internal trigger checked at:	1 Hz	100 Hz	10 kHz	1 MHz		
Actual measured output ¹ :	1.008 Hz	100.4 Hz	9.994 kHz	1.021 MHz		
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:	10 ns	20 ns	50 ns	100 ns	50 kHz, +20V to 50 Ohms	
Actual measured output ² :	9.8 ns	19.8 ns	49.7 ns	99.6 ns		
PWin = PWout mode checked:	N/A				DC mode checked:	N/A
Duty Cycle Limit:	10%					
Delay nulled:	Yes					
Delay checked at:	100 ns	200 ns	500 ns		50 kHz, +20V to 50 Ohms	
Actual measured output ¹ :	99.3 ns	203 ns	509 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:	+2V	+5V	+10V	+20V	50 kHz, 100 ns, 50 Ohms	
Actual measured output ² :	+1.99V	+5.02V	+10.1V	+20.1V		
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:	-10V	0V	+10V		Into 50 Ohms	
Actual measured output ² :	-10.0V	0.00V	+10.0V			
Offset nulled (output on):	Yes			Amplitude-dependent offset nulled:	N/A	
Offset nulled (output off):	Yes					
RS-232 checked:	Yes					
LCD pull-ups installed:	Yes					
PN trigger pull-downs installed:	N/A					
Sync pulse width checked:	200 ns nominal					
Circuit Boards:	PS:	93	Main:	108G		
Overload Trigger Resistance:	Trips at:	17.4 kΩ	Installed:	15 kΩ		
DC fuses:	Positive:	0.5A	Negative:	N/A		
AC Current:	Quiescent:	0.38A @ 115V	Max. Load:	0.48A @ 115V		
		0.18A @ 230V		0.23A @ 230V		
AC fuse:	0.5A – for 240V operation.					
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.