

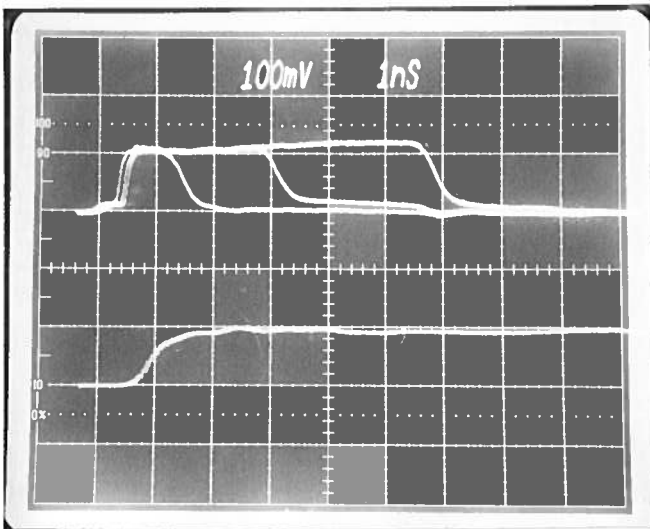
PULSE GENERATOR

PERFORMANCE CHECK

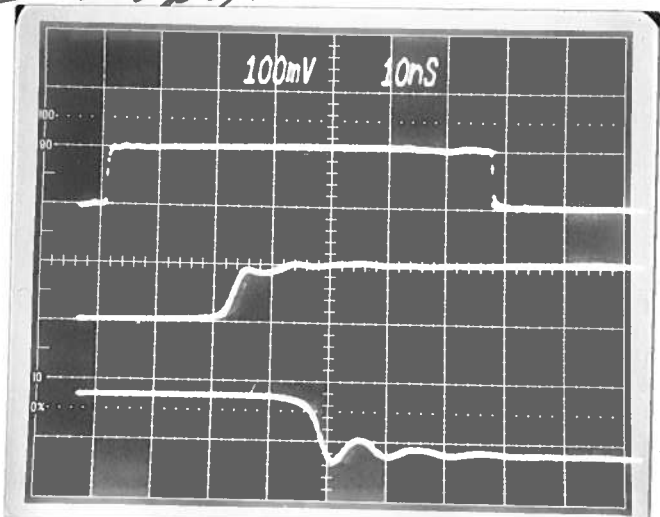
Model: *AVPP-1-B-COB-P*

S.N.: *10823*

Date: *JAN 20 2004*



1-6 NS RANGE 40dB ATTN.: 10V/DIV
TOP 1 NS/DIV
Bot 200 ps/DIV (RISE TIME)



6 NS TO 1.0US RANGE 40dB ATTN.: 10V/DIV
PRF = 100 KHZ.

- a) Output signal amplitude:
0 TO +10V (TO 500V)
- b) Pulse width:
1 NS TO 1 US
(5% MAX DUTY CYCLE)
- c) Rise time:
≤ 300ps
- d) Fall time:
≤ 400ps
- e) PRF: *0 TO 1 MHz.*
(5% MAX DUTY CYCLE)
- f) Jitter, stability:
OK
- g) Prime power:
100 - 240 V
50 - 60 MHz.

← 10 NS/DIV

← 500ps/DIV
(RISE TIME)

← 500ps/DIV
(FALL TIME)



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"-B" Functional Test & Calibration Certificate

Date of test:	January 19, 2004				Tester:	MJC
Programmed model name:	AVPP-1-B-P-COB					
Programmed serial number:	10823					
Firmware revision:	2.55					
Internal trigger checked at:	1 Hz	100 Hz	10 kHz	100 kHz	1 MHz	
Actual measured output ¹ :	0.996 Hz	99.4 Hz	9.93 kHz	99.6 kHz	1.001 MHz	
External trigger checked:	Yes			Gate checked:	Yes	
Manual trigger checked:	Yes					
Pulse compression checked:	Yes		Low Amplitude PW Distortion Nulled:			
Pulse width checked at:	1 ns	10 ns	100 ns	1 us	50 kHz, +10V to 50Ω	
Actual measured output ² :	0.95 ns	9.7 ns	101 ns	0.999 us		
PWin = PWout mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	5%					
Delay nulled:	Yes, for 100 ns PW					
Delay checked at:	100 ns	200 ns	500 ns		100 Hz, +10V to 50Ω	
Actual measured output ¹ :	102 ns	201 ns	506 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:	+3V, 2 ns	+10V, 2 ns	+3V, 1 us	+10V, 1 us	20 kHz, to 50Ω	
Actual measured output ² :	+3.2V	+10.1V	+3.0V	+10.0V		
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 resistor updates:	Yes, R38, R39.					
PN trigger pull-downs installed:	N/A					
Sync pulse width checked:	100 ns nominal					
Circuit Boards:	PS:	158E	Main:	108H		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A		
DC fuses:	Positive:	1A + spare	Negative:	N/A		
AC Current:	Quiescent:	@ 115V	Max. Load:	0.27A @ 115V		
		@ 230V		0.18A @ 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.