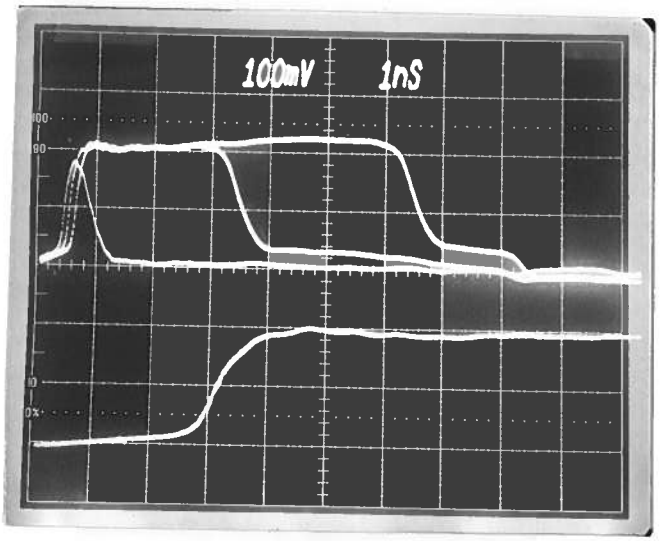
PULSE GENERATOR

PERFORMANCE CHECK

Model: AVPP-2-B-P

S.N.: 10783

Date: NOV 24 2003



0.4 TO 6.5NS RANGE 40 dB ATTN

TOP: 1 NS/DIV

BOT: 200 PS/DIV (RISETIME)

-.10V/DIV

a) Output signal amplitude:
0 TO +20 V (TO 50Ω)

b) Pulse width:
0.4 TO 100 NS

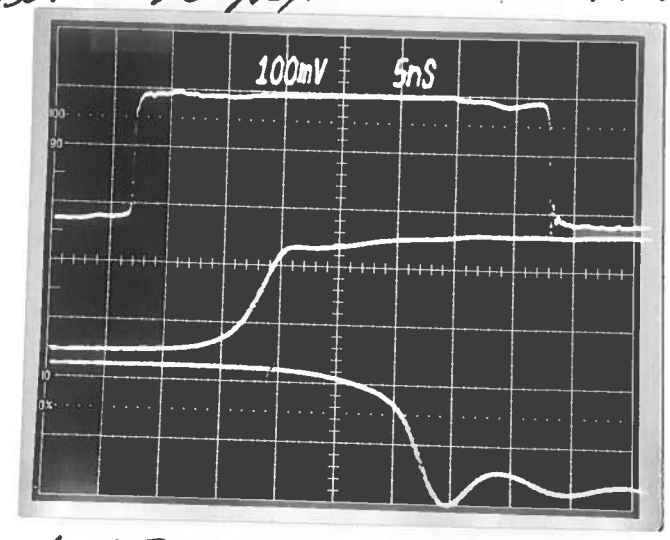
c) Rise time:
≤ 200 PS

d) Fall time:
≤ 300 PS

e) PRF:
0 TO 100 KHZ

f) Jitter, stability:
OK

g) Prime power:
120/240 V
50-60 HZ



← 5 NS/DIV

← 200 PS/DIV (RISETIME)

← 200 PS/DIV (FALLTIME)

6.5 TO 100 NS RANGE 10V/DIV

PRF = 100 KHZ

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"-B" Functional Test & Calibration Certificate

Date of test:	November 24, 2003			Tester:	MJC
Programmed model name:	AVPP-2-B-P				
Programmed serial number:	10783				
Firmware revision:	2.54				
Internal trigger checked at:	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz
Actual measured output[1]:	9.97 Hz	99.7 Hz	0.997 kHz	10.01 kHz	100.1 kHz
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:	1 ns	10 ns	100 ns		10 kHz, +20V
Actual measured output[2]:	1.1 ns	10.3 ns	100 ns		to 50Ω
PWin = PWout mode checked:	N/A			DC mode checked:	N/A
Duty Cycle Limit:	N/A				
Delay nulled:	Yes				
Delay checked at:	100 ns	1 us	10 us		10 kHz, +20V
Actual measured output[1]:	99.8 ns	1.007 us	10.09 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:	3 ns, +5V	100 ns, +10V	3 ns, +15V	100 ns, +20V	10 kHz, to
Actual measured output[2]:	+5.1V	+10.3V	+14.5V	+20.3V	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:	Yes				
PCB 108G resistor updates:	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:	N/A	Installed:	N/A	
DC fuses:	Positive:	N/A	Negative:	N/A	
AC Current:	Quiescent:	0.35A @ 115V	Max. Load:	0.38A @ 115V	
		0.17A @ 230V		0.18A @ 230V	
AC fuse:	1A				
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.

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