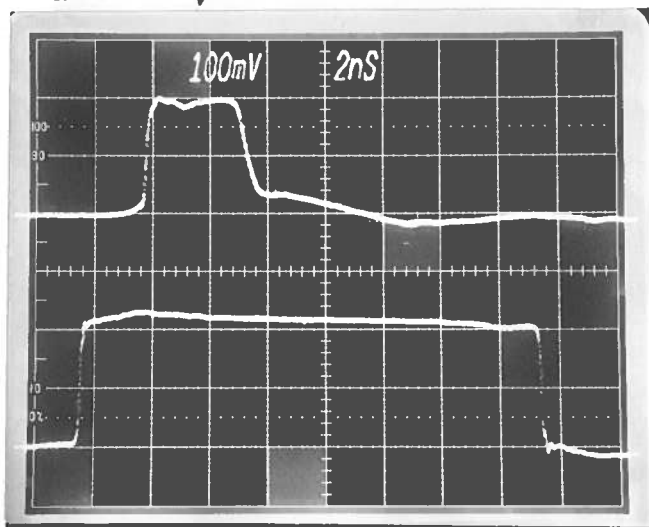


PULSE GENERATOR
PERFORMANCE CHECK

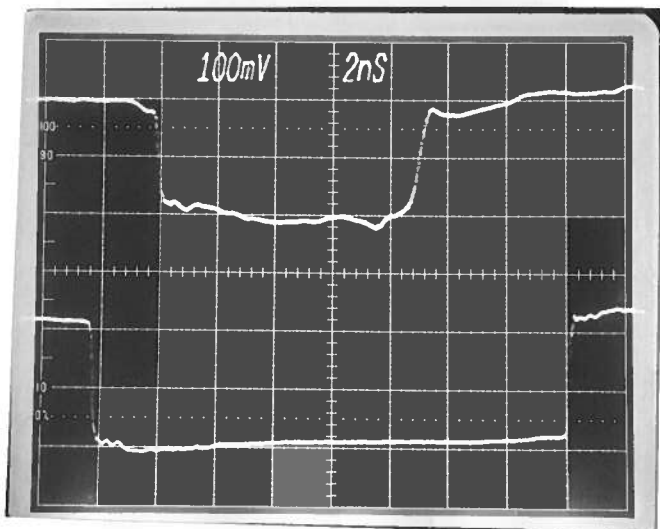
Model: *MPP-2-B-PN-OT*

S.N.: *10281*

Date: *JULY 31 2002*



Ⓐ *Pos out TOP: 2 NS/DIV*
BOT: 5 NS/DIV



Ⓑ *NEG out TOP: 2 NS/DIV*
BOT: 5 NS/DIV

100 KHz PkF
40 dB ATTN.

- a) Output signal amplitude:
0 TO ±20 VOLTS (TO 50V)
- b) Pulse width:
0.4NS TO 100NS
- c) Rise time:
≤ 200ps
- d) Fall time:
≤ 300ps
- e) PRF:
0 TO 100KHz
- f) Jitter, stability:
OK
- g) Prime power: *120/240V*
50-60Hz



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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"-B" Functional Test & Calibration Certificate

Date of test:	July 31, 2002				Tester:	MJC
Programmed model name:	AVPP-2-B-OT-PN					
Programmed serial number:	10281					
Firmware revision:	2.40					
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	10 kHz	100 kHz	
Actual measured output ¹ :	1.000 Hz	100.0 Hz	1.000 kHz	10.00 kHz	99.84 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	100 kHz, +20V to 50 Ohms		
Actual measured output ² :	1.0 ns	10.3 ns	100 ns			
PW _{in} = PW _{out} mode checked:	N/A			DC mode checked:	N/A	
Duty Cycle Limit:	N/A					
Delay nulled:	yes					
Delay checked at:	100 ns	200 ns	500 ns	100 kHz, 4 ns, +20V, 50 Ohm		
Actual measured output ¹ :	99.2 ns	200.5 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:	+20V, 6 ns	+20V, 60 ns	-20V, 6 ns	-20V, 60 ns	100 kHz, to 50 Ohms	
Actual measured output ² :	+20.0V	+20.2V	-19.5V	-20.2V		
Amplitude polarity:	+/-					
Zout calibration:	N/A					
Electronic amplitude control:	N/A					
External amplify mode:	N/A					
Ultravolt flux removed:	N/A					
Monitor V/I Ratio:	N/A			Monitor offset nulled:		
LCD Monitor calibrated:	N/A					
Offset checked at:	-5V	0V	+5V	into 50 Ohms		
Actual measured output ² :	-4.99V	-0.002V	+5.00V			
Offset nulled (output on):	N/A			Amplitude-dependent offset nulled:		
Offset nulled (output off):	yes, switch set					
RS-232 checked:	yes					
LCD pull-ups installed:	yes					
Sync pulse width checked:	200 ns					
Circuit Boards:	PS:	93	Main:	108E		
Overload Trigger Resistance:	Trips at:	N/A	Installed:	N/A		
DC fuses:	Positive:	N/A	Negative:	N/A		
AC Current at 115 VAC:	Quiescent:	0.48A	Max. Load:	0.51A		
AC fuse:	1A					
120/240V operation:	OK			Fan operational:	yes	
Photographed:	yes					

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 system (Cal. Label 112506) for PW < 5 ns.