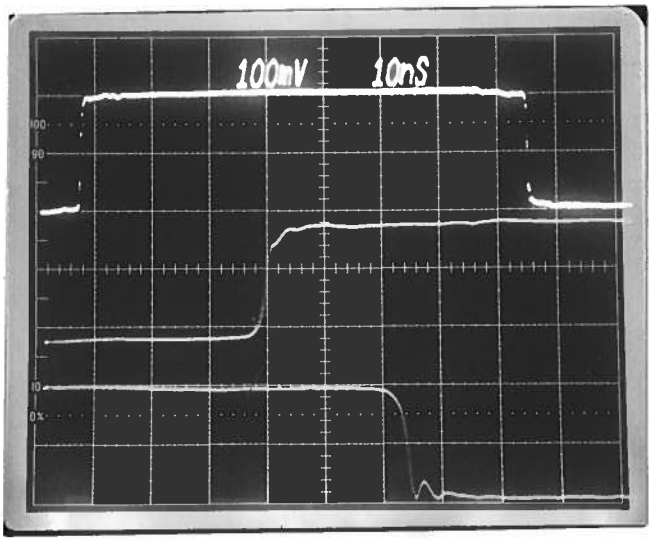
PULSE GENERATOR

PERFORMANCE CHECK

Model: AMMP-3-B-P-OT-GA-L5

S.N.: 10613

Date: MAY 23 2003



a) Output signal amplitude:
0 TO +20 VOLTS UP TO 50Ω

b) Pulse width:
UP TO 100 NS

c) Rise time:
≤ 200 PS

d) Fall time:
≤ 300 PS

e) PRF:
0 TO 1.0 MHz

f) Jitter, stability:
OK

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

h) DC OFFSET:
0 TO ± 10 VOLTS
200 MA MAX.

40 dB ATTN.: 10 VOLTS/DIV

TOP 10 NS/DIV

MID 1 NS/DIV
(RISETIME)

BOT 1 NS/DIV
(FALL TIME)
PRF = 100 KHz
DC OFFSET: 0 VOLTS

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SINCE 1975

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"-B" Functional Test & Calibration Certificate

Date of test:	May 23, 2003			Tester:	MJC
Programmed model name:	AVMP-3-B-P-OT-ELA-R5				
Programmed serial number:	10613				
Firmware revision:	2.47				
Internal trigger checked at:	1 Hz	100 Hz	1 kHz	10 kHz	1 MHz
Actual measured output[1]:	1.007 Hz	100.3 Hz	1.003 kHz	9.990 kHz	1.009 MHz
External trigger checked:	OK			Gate checked:	yes
Manual trigger checked:	yes				
Pulse compression checked:	yes	Low Amplitude PW Distortion Nulled:			N/A
Pulse width checked at:	8 ns	25 ns	50 ns	100 ns	100 kHz, +20V
Actual measured output[2]:	8.0 ns	25.3 ns	50.3 ns	100 ns	to 50 Ohms
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		100 kHz, +20V
Actual measured output[1]:	99.2 ns	202 ns	504 ns		to 50 Ohms
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	100 kHz, 100
Actual measured output[2]:	+2.0V	+5.0V	+10.0V	+20.0V	ns to 50 Ohms
Amplitude polarity:	+				
Zout calibration:	N/A				
Electronic amplitude control:	N/A				
External amplify mode:	N/A				
Bleeder resistors adequate:	N/A				
Ultravolt flux removed:	N/A				
Monitor V/I Ratio:	N/A			Monitor offset nulled:	
LCD Monitor calibrated:	N/A				
Offset checked at:	-10.0V	0V	+10V		into 50 Ohms
Actual measured output[2]:	-10.0V	0.001V	+10.1V		
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				
PW stable during amplitude changes:	N/A				
Sync pulse width checked:	200 ns				
Circuit Boards:	PS:	93	Main:	108G	
Overload Trigger Resistance:	Trips at:	N/A	Installed:	12k	
DC fuses:	Positive:	0.5A	Negative:	N/A	
AC Current:	Quiescent:	0.382A@115V 0.181A@230V	Max. Load:	0.490A@115V 0.235A@230V	
AC fuse:	1A				
120/240V operation:	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 system (Cal. Label 112506) for PW < 5 ns.