

APG1 Pulse Source

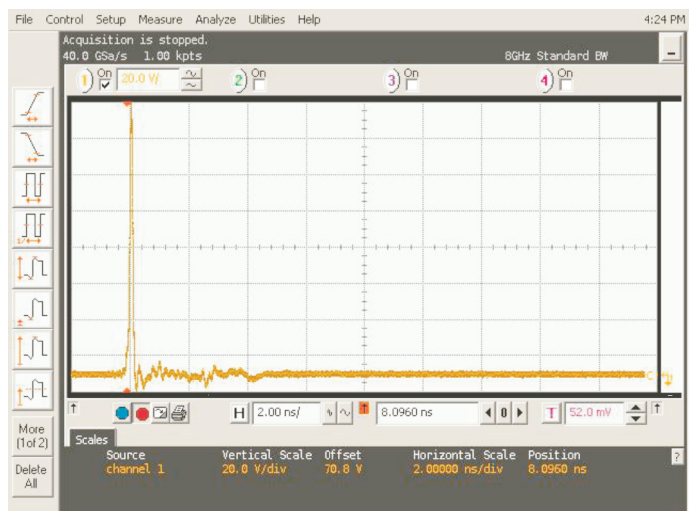
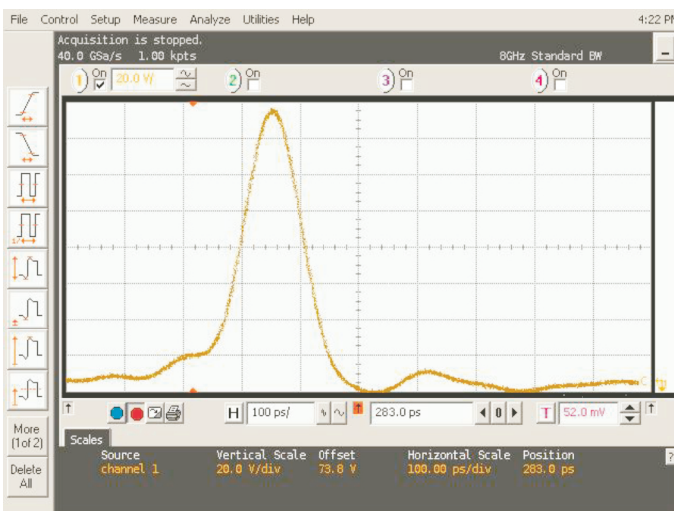


Applications

General purpose triggering
Rise time testing
TDR pulse source
Trigger delay generator
Laser diode driver and many more

Summary

- >150 volt <150ps pulse into 50Ω.
- Built in rate generator to 10kHz
- Built in delay unit to 100ns
- 110/240 V AC power
- Auxillary Outputs



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NORMAL SPECIFICATIONS

Output voltage	>150V, 50 Ω .
Pulse Width	<150ps FWHM.
Polarity	Positive.
Trigger	Requires $\geq 5V$ into 50 Ω , ~ 5 ns rise time.
Jitter	<10 ps RMS.
Trigger delay	~ 10 ns in direct mode.
Post pulse noise	<8% up to 0.5ns <4% from 0.5 to 1.5ns <2% later.
Repetition rates	$\leq 10,000$ Hz.
Power supply	100 to 240V AC 50 to 60Hz.
Outputs:	
Pulse output	SMA 150V pulse.
Pretrigger output	BNC 10V into 50 Ω , leads main output by the delay when the delay is active.
Auxiliary output	BNC 10V into 50 Ω , after delay (i.e. fixed timing with respect to main output).
Inputs:	
Trigger input	BNC $\geq 5V$, 50 Ω ..
Controls:	
Mode	Sets one of the following modes: Single shot (delay active) 1-10Hz (delay active) 10-100Hz (delay active) 100-1000Hz (delay active) 1000-10,000Hz (delay active) External trigger (delay active) "Delay" External trigger (delay inactive) "Direct"
Fine rate	Varies internal rate by a ratio of 10:1.
Delay (and fine delay)	Sets internal delay, up to 100ns pretrigger delay.
Single shot button	Depressing this button cause a single trigger when single shot mode selected.
Power	Switches AC power in the pulser.
Indicators:	
Power	Shows that AC power is applied and the unit is switched on.
Triggered	Illuminates while the unit is being triggered.

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