





CONFIGURATION 2, 4, or 8 channels per instrument

delay	0 to 1000 seconds with 100 ns resolution
width	100 ns to 1000 seconds with 10 ns resolution
accuracy	10 ns + .0001 delay
time base	50 MHz, 50 ppm crystal oscillator
RMS jitter	< 2 ns

EXTERNAL TRIGGER/GATE

rate	0 to 2 MHz
insertion delay	< 250 ns
threshold	200 mV - 15V
trigger slope	Rising or falling edge, selectable
gate	Active low or active high, selectable
impedance	1000 ohms

INTERNAL REP RATE GENERATOR

rate	0.001 Hz to 2 MHz
accuracy	5 ns + 0.0001 x period
RMS jitter	< 500 ps
OUTPUTS	Adjustable to 20 V
IMPEDANCE	50 ohm

ADJUSTABLE AMPLITUDE

slew rate	> .2 V/ns
amplitude	1V - 10V into 50 ohm load
	2 V - 20 V into high impedance
peak current	150 mA per channel

average current 200 mA ave. (total for all channels) polarity Positive (active high) or Negative

COMPUTER INTERFACE

RS232 4800, 9600, 19200 & 38400 **IEEE 4888** Standard

MODEL SELECTION

2 Electrical Outputs
4 Electrical Outputs
8 Electrical Outputs
19' Rack Mount
Extended service/calibration
agreements

Model 505 expands the previously established boundaries of antiquated pulse generating equipment by adding 8 independent channels, multiple modes of operation, and 16 different edges in a single instrument. As a pulse generator model 505 provides rate, delay, width, and output adjustability with each channel. As a digital delay generator, model 505 provides fine resolution, timing, and low jitter. By allowing external, internal, and 3rd party software to control the 505 this Digital Delay and Pulse Generator can address many application specific requirements.

The outputs are synchronized to one another with coherence of 5 ns. A channel's timing can be referenced to any other channel or to the zero delay point (To) The edges are adjustable in 100 ns steps. Channels can be selectively gated, enabled / disabled. Each channel possesses separate output level and polarity characteristics along with system level gating capability. Model 505 provides the ability to store custom parameter settings which are able to be recalled for later use.

INSTRUMENT KEY FEATURES:

- **Single Shot** One Pulse with each pushbutton, internal, external, or software trigger.
- Burst Each channel will output n number of pulses as specified by the user
- Duty Cycle The user can configure each channel to provide N pulses on and M pulses off
- Gate Channels can be instructed to respond or ignore trigger signals
- Recall Capability The 505 can recall
 previously stored settings

