

Affordable, Multi Purpose Pulse Generator

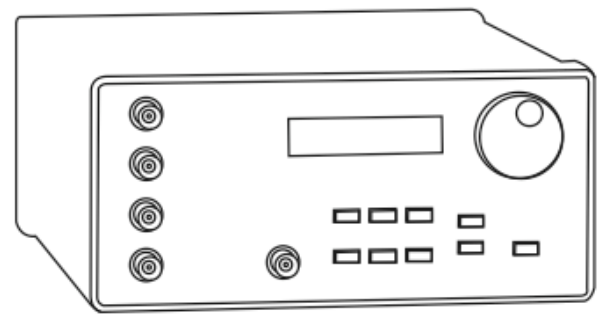


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- ✓ 4 INDEPENDENT CHANNELS
- ✓ MULTIPLE MODES
- ✓ 8 DIFFERENT EDGES

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10 NS RESOLUTION . 2 NS CHANNEL-TO-CHANNEL JITTER

Performance • Versatility • Affordability

CONFIGURATION 2, 4, or 8 channels per instrument

TIMING DELAYS AND WIDTHS

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

Ethernet Standard
USB Standard
RS232 4800, 9600, 19200 & 38400
IEEE 4888 Standard

MODEL SELECTION

model 505-2C 2 Electrical Outputs
model 505-4c 4 Electrical Outputs
model 505-8C 8 Electrical Outputs
ACCESSORIES 19' Rack Mount
 Extended service/calibration agreements available

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

