

Model 598



8-Ch, 1pS cPCI Digital Delay Generator



Features

- Eight Independent Delay Channel
- 1 ps Resolution
- 15 ps rms Jitter
- 1 Second Maximum Delay Range
- cPCI 6U, 1 slot, Scalable

Applications

- Components Test
- ATE Application
- Laser Timing application
- Precision Pulse Application
- Picosecond timing system
- Triggering

The Model 598 cPCI Digital Delay Generator offers eight independent delay channels per module. The delay resolution on all channels is < 1 ps and channel to channel jitter is less than 15 ps.

LEMO outputs deliver 2.5 to 10 V level into 50 OHm. There is an input connector also, offering external triggering (To, zero delay). The external trigger, or an internal clock, may be used to set delays of each output. The modular architecture is well suited for integrated applications or applications requiring many channels of precise timing. We offer a range of operational modes that enable users to customize the units.

Specifications

Delays

Channels	One fixed position marker (T0) and 8 independent delay
Range	0 to 10 s
Resolution	1 ps
RMS jitter (T0 to any output)	15 ps rms
RMS jitter (External Trigger to any output)	500 ps + 10^{-7} x delay
Trigger Delay	< 100 ns (insertion delay)
Accuracy	< 250 ps + delay x 10^{-7}
Timebase	10 MHz internal clock
Repetition Rate	< 50 kHz
External Trigger	Level 1V, slope positive, impedance 50 Ω
Internal Trigger	0.05 Hz to 50 kHz, resolution : 1 Hz

Output

Level	2.5 to 10 V, resolution : 1 mV
Width	200 ns to 1 μ s
Load	50 Ω
Rise time, fall time	< 2 ns, < 5 ns
Connector	LEMO

General

Size	CPCI, 1 slot
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Free Drivers for 2000/XP

Options

Option 1	Optical triggered
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