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Find the *Colby Instruments PDL-10A* at our website: *Click HERE*



OVERVIEW

PDL-1A

PDL-10A

PDL-30A

PDL-100A

PDL-100A-OEM

PDL-200A

CPDL-100A

HPDL-1A

HPDL-100A

MT-1A

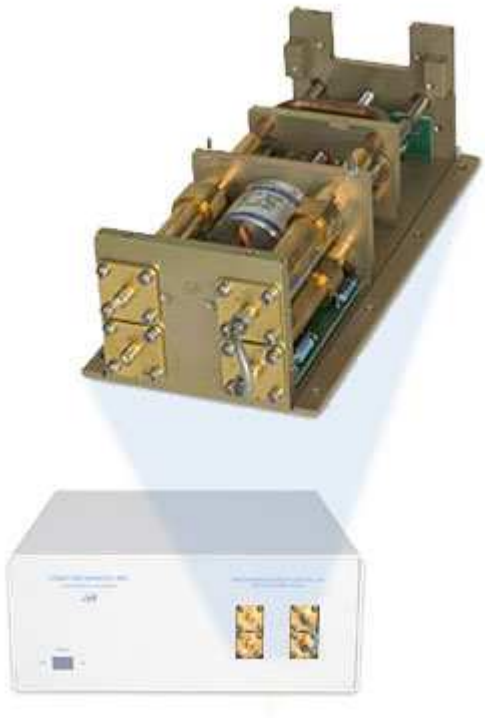
MT-100A

PDM-100A

PG-1000A

SPECIFICATIONS

PDL-10A



This high-resolution delay line based on the Electro-Mechanical Trombone delay line structure has a total delay range from 0 to 625 ps and bandwidth from DC to 18 Ghz. An internal stepper motor produces precise delay steps with a resolution to 0.5 ps when operated in series connected mode. The patented Mechanical Trombone design has an outstanding operational lifetime of 500,000 operations, and an absolute accuracy of 0.1%, Â± 0.2 ps.

In the standard set-up (**series connected**), two identical 312.5 ps electro-mechanical trombone sections are connected in series via a short semi-rigid coaxial cable on the front panel. The Series Connected configuration provides a full delay extension range of 625 ps with 0.50 ps resolution. Alternatively, if the short semi-rigid coaxial cable is removed (**dual channel or parallel connected**), two very tightly phase matched delay lines are available with a total delay range of 312.50 ps each, and with a resolution of 0.25 ps.

The **PDL-10A** is fully programmable via GPIB (IEEE488.2 protocol) interface or via the optional Microterminal (MT-1A).Â At 18 Ghz, the frequency roll-off is typically less than 1.0 dB. Customers have used this delay line for digital applications up to 40 Gb/s NRZ with excellent results. This delay line is unmatched in performance, resolution, and repeatability by any competing product on the market. See Delay Line Specifications Data Sheet for additional detailed information.

NOTE: The PDL-10A has been superseded by our newer PDL-100A Series of instruments offering additional features and functionality. The PDL-10A model will no longer be available after June 30, 2006.

Insertion/Return Loss Report for PDL-10A at 300 ps delay (53.1 KB)
Adobe Acrobat Reader required

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