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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%, ± 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 312.5 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). 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NOTE: The PDL-10A has been superseded by our newer PDL-100A Series of instruments offering additional features and functionality.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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