

Microsecond-level optical switch 5W fiber optic delay line



Overview

The OPDL product line can provide time delay capabilities for Radio Frequency (RF) input signals with instantaneous bandwidths from DC to over 60 GHz, are packaged in modular enclosures, as well as rack chassis configurations, and can support time delays exceeding 5 ms. The distance the light travels in free space is precisely controlled, either by controlling the separation between the input and output optics, or by. High Performance Fiber Optic Delay Lines Enable Accurate Time delays from picoseconds to 5 milliseconds. The Microwave Photonic Systems Optical / Photonic Delay Line (OPDL) family of products exhibits industry leading performance with the smallest volumetric footprints available at economical. We provide a full range of best-in-class optical and microwave delay solutions, including ultra-fast nanosecond variable delay, motor-driven delay lines, customer-defined fiber coil length selective delay, high-resolution digitally switching delay lines, RF integrated delay systems. We produce. Piezoelectric driven switches are especially designed for high switching speeds in the millisecond range. It provides an expert-curated supplier directory, buyer-focused technical background information, and structured selection criteria to support professional procurement decisions.



Article Content

MPS Fiber Optic Delay Line Systems

Microwave Photonic Systems has been a leader in the design and manufacture of high performance optical delay lines for years and can currently support almost any delay line system requirement.

Optical Delay Line

The time delay is achieved by selectively routing the optical signal through a set of fiber segments with required length. The 19" rack mountable module provides

Delay Line - RFComm

The programmable delay line solution is a turn-key solution delivering unmatched performance in delay range, resolution, and reconfiguration speed. It converts an incoming RF signal into an optical signal

A 5 bit fiber delay line based on magneto-optic switch

Keywords optical true time delay, fiber delay line, magneto-optic switch 1
Introduction Optical true time delay lines have many advantages over their electrical counterparts, such as low

Optical / RF Delay Lines

We offer a comprehensive range of RF and optical time delay products and systems refined over 20 years of serving the US defense industry. Our portfolio includes

Custom Optical Time Delays for Fiber Latency and

Optical Time Delay Solutions Optical time delays, aka fiber delay lines, are essential for signal timing, synchronization, equalization, and other latency

Design of Fiber Delay Line Based on Fiber Grating Cascade Structure

Based on the use of fiber grating to achieve picosecond-level delay, a microsecond-level cascade structure combining fiber grating and single-mode fiber is proposed, this structure can realize

RF & Microwave Fiber Optic Delay Line System

Ortel's variable (progressive) Fiber Optic Delay Line System (DLS) offer superior performance for radar range calibration, ground based system tests, radar warning receivers, timing control, path delay

Optical Delay Lines

Delay may be expressed as distance or altitude/range for Altimeter Optical Delay Lines. The Optical Delay Line (ODL) provides a true time delay of wideband RF

Optical Delay Line Modules

Fiber-optic phase shifters or fiber stretchers are used to finely adjust the optical phase and delay time. Different modules produce a phase shift of up to 15 pi

Multimode-enabled silicon photonic delay lines: break the delay

In this paper, we propose and experimentally demonstrate multimode-enabled silicon photonic delay line for the first time, which breaks the delay-density limit of singlemode waveguide...

Optical Variable Delay Line: Components and Systems

Perfected over 20 years, we uniquely offer 0.01ps to ms large delay range, high time precision, and high variable resolution with both fiber loops for the long

Optical Delay Lines – variable, scanning, free-space,

Optical delay lines provide variable time delays for interferometers, autocorrelators, and optical sampling, using free-space optics or fiber delay lines.

Optical Delay Lines – variable, scanning, free-space,

For that purpose, one can convert microwave signals to optical signals, send them through a fiber-optic delay line and finally convert them back to microwaves with optical delay line microwave photonic systems

Supports Fixed and Variable Delays Over Frequency Ranges from 100 MHz to 18.0 GHz The MPS Optical / Photonic Delay Line (OPDL) is a “Best in Class” integrated subrack that leverages MPS's

A Fiber-optic-based Programmable Delay Line

A Fiber-optic-based Programmable Delay Line Princeton Electronic Systems Inc. (PES) Princeton, NJ An important application of optoelectronic devices in microwave signal processing is

Delay Lines

Delay lines are essential hardware items for applications requiring time delay as part of systems test and / or evaluation. Microwave Photonic Systems Fiber Optic Delay lines have long been trusted

Optical Variable Delay Line: Components and Systems

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MPS Fiber Optic Delay Line Systems

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