

Comparison of Intelligent Delay in MEMS Optical Switches



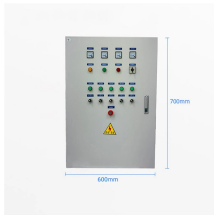
Comparison of Intelligent Delay in MEMS Optical Switches



Microelectromechanical systems (MEMS)-based optical switches have been a popular research topic and have shown a lot of promise. This chapter is a comprehensive review of MEMS-based optical ...



This article presents the design method of a compact MEMS switched-line true-time delay line (TTDL) network over a wide frequency range extending from 2 to 42 ...



We have presented the details of our ongoing optical MEMS research projects by detailing the design, fabrication, and test results of three novel devices representative of the diverse applications and size ...



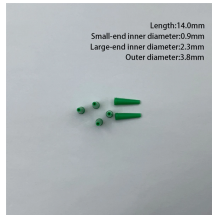
In this article we report various popular actuating mechanisms and switch architectures of MEMS optical switches.



This article presents the design method of a compact MEMS switched-line true-time delay line (TTDL) network over a wide frequency range extending from 2 to 42 GHz using TTDL units.



Comparing Liquid Crystal on Silicon (LCoS) and MEMS-based Wavelength Selective Switches (WSS) for DWDM networks. Explore their differences in spectral flexibility, insertion loss, ...



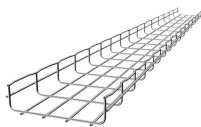
This paper reviews working principles and architectures of MEMS-based optical switches from the past to the present day. During the last two decades, many approaches and actuating mechanisms ...



In this paper, we propose and demonstrate a 32×4 optical switch using high-index doped silica glass (HDSG) for ROADM applications.



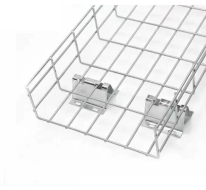
This chapter gives an overview of techniques used in MEMS-based optical fiber switches for optical communication systems. At first, the field of application is described.



There are currently two popular approaches to implement MEMS optical switches: (A) 2D MEMS switches; (B) 3D MEMS switches. These two technologies have striking differences in terms of how ...



This work presents the design, fabrication, and experimental validation of a 4-bit switched-line true time delay unit (TDU) using commercially packaged RF MEMS switches and standard ...



We tested our LCoS-based optical switch with a QPSK (Quadrature Phase Shift Keying) signal and examined the clustering of the demodulated signal with and without the switch in the transmission line.

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