Customized Low-Loss Process for FTTR Using MEMS Optical Switches

In this article we report various popular actuating mechanisms and switch architectures of MEMS optical switches. The basics of surface and bulk micromachining techniques used to fabricate MEMS ...

We offer both 2D and 1D movement-based MEMS switches. The 1D motion MEMS mirror (in or out of the light path) offers low crosstalk or high on/off ratio, fault-safe latching, free space platform.

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

MEISU MEMS optical switch is an optical switch based on micro-electro-mechanical system (MEMS) technology, which achieved low insertion loss and high repeatability by rotating the mirror of MEMS ...

In this article we dis-cuss the technology, performance, and reliability of 2D MEMS optical switches. We show that this technology meets the scalability, perfor-mance, and reliability requirements for impor ...

In this work, series resistive type RF MEMS switches were fabricated with precision on Corning Lotus NXT glass, a substrate designed for high temperature TFT processes and featured ...

Today, standardized silicon photonics technology platforms implemented by foundries provide access to optimized library components, including low-loss optical routing, fast modulation,...

Silicon photonic MEMS is the hybrid of silicon photonics and MEMS technologies.17-21 MEMS t of silicon waveguides, which provides effective switching of broadband optical signals with unprece ave ...

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.

Current applications, however, do not require fast switching and thus Piezo and 3D MEMS mirror based switches represent the current state of the art for optical circuit switches.

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