MEMS optical switch vibration index

Download scientific diagram | Vibration sensitivity of the optical switch with different path lengths. The curve with dot marker shows the lens focal length used for loss calculation.

This chapter is a comprehensive review of MEMS-based optical switch architectures, actuating principles and fabrication process. The challenges that MEMS face as an enabling technology for ...

oped for application in communication networks. Although, very useful, mo t of them have relatively simple f nctionality. Many of these application in fiber optics telecommunication. In this pa er, a study ...

The Fiber-Fibers Series of optical switch is based on a patented MEMS technology that self-aligns a fiber directly to another fiber with a tiny gap that is filled with an index-matching liquid.

Optical switches are components in a fiber-optic communi-cations network that direct light beams from one optical fiber to another. Throughout this paper, the term "optical switch" shall ...

A brief discussion of MEMS-based optical switch technology, fabrication process, switch architectures, actuation mechanism, switch parameters, and related reliability challenges is presented in this chapter.

Optical burst switching attempts to minimize the need for processing and buffering by aggregating flows of data packets into bursts. In this paper, we present an extensive overview of the current ...

Performance metrics considered for comparison are switching time, scalability, noise, power-consumption and cost. The paper culminates with additional applications and current status of ...

We report optical coupling loss and vibration characterization for packaging of 2x2 vertical torsion mirror switches. The coupling losses of fiber-to-fiber and fiber-lens-lens-fiber are examined in order to ...

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