

Customization Process for Upgraded MEMS Optical Switches for Rail Transit

All of Sercalo's optical MEMS switches are built on proprietary MEMS chips produced directly in Sercalo's own state-of-the-art fabrication facility. This vertical integration ensures that every chip ...

Use our custom MEMS optical switches in applications that require continual switching, where their high-reliability and long-lifetimes are major advantages.

Optical switching becomes more and more an important issue in optical communication networks as the networks develop from static point-to-point connections into dynamically meshed networks. Besides ...

The review critically analyzes the influence of design parameters, actuation mechanisms, and material properties on the performance of MEMS switches. Additionally, it explores recent ...

We have used general design approaches such as pure-flexure design, electrostatic actuation and residual stress engineering in addressing these challenges. On several examples in this paper we ...

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 ...

To address this potential market, Analog Devices has developed the Optical iMEMS™ process for fabricating MEMS optical components with integrated, on-chip electronics.

A micro-electromechanical systems (MEMS) optical circuit switch (OCS) is provided, comprising: a first optical fiber array and a second optical fiber array each having N ports; a first...

Fabricating optical MEMS devices involves microfabrication techniques like bulk and surface micromachining and deep X-ray lithography. The fabrication consists of functionality testing of...

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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.

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