FRINDEL OPTICS

Low-power optical module anti-electrostatic tracking

Overview

The MEMS ultrasonic transducer developed in this study uses aluminum nitride (AlN) as the piezoelectric thin film for ultrasound generation and detection.

Low-power optical module anti-electrostatic tracking

An ultra-low-power optical transmitter for linear-drive optical

Co-packaged optics (CPO) is a disruptive approach to increasing the interconnecting bandwidth density and energy efficiency by dramatically

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Compact non-volatile ferroelectric electrostatic doping

With the booming development of optoelectronic hybrid integrated circuits, the footprint and power consumption of photonic devices have become

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PAT9125EL

The PAT9125EL integrates an ultra-low power CMOS-processed optical navigation chip with a LASER light source in a single miniature package,

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Electrostatic dust removal using adsorbed

Electrostatic solar panel cleaning has been proposed as an exciting alternative that can potentially eliminate the consumption of water and contact

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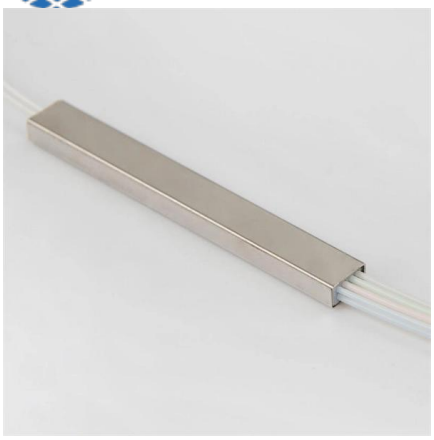

Realistic 3D implementation of electrostatic elements for low energy

In this contribution, methods for accurately creating and tracking through electrostatic optical elements are presented, utilising a combination of a modified version of G4Beamline (Roberts and Kaplan

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Eye tracking and eye expression decoding based on transparent,

Here, a transparent, flexible and ultra-persistent electrostatic sensing interface is proposed for realizing active eye tracking (AET) system based on the elec-trostatic induction effect.

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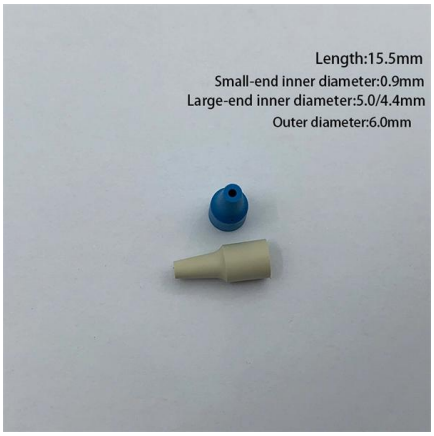

Smallest Thinnest Power Modules for Data Center Optical Modules

By operating from a single 2.7V to 5.5V input power rail and integrating the controller, gate driver, power inductor, and MOSFETs, these mini modules are optimized for space-constrained applications like

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How a Tiny, Low-Power MCU Meets the Needs of an

As shown from the block diagram and the previous description, the main advantages of the MAX32660 are its high performance, low-power

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A Physical Layer for Low Power Optical Wireless Communications

Energy consumption is one of the critical issues in optical wireless communications transmitter design and a limiting factor to miniaturization and deployment in mobile devices. In order

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17_DS_Electro-Optics_IS_15

The Optical Electronic Tracking System (OETS) is a long-range surveillance and tracking system which can detect and track targets otherwise hidden in low contrast clouds or darkness.

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CMOS Low-Power Optical Transceiver for Short Reach

After outlining the design principles for low-power optical transmitter (Tx) and receiver (Rx) design, we present a comprehensive design of a low

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800G LPO Module: Enabling Low-Cost, Low-Latency Connectivity

Low Power Consumption and Latency: Compared to traditional 800G DSP-based transceivers that consume up to 17W, the FS 800G OSFP finned-top LPO module dramatically

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Low-Power Optical Technology Energy-Harvesting , DigiKey

Harvesting opportunities Emerging high-speed optical-network technology is likely to yield some opportunities for energy harvesting in the future. At the microchip level, it may well be possible

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Electrostatic actuators with constant force at low power loss using

The approach provides indefinite, steady force output under constant-voltage operation, with up to 1,000-fold power loss reduction compared with unmatched material combinations.

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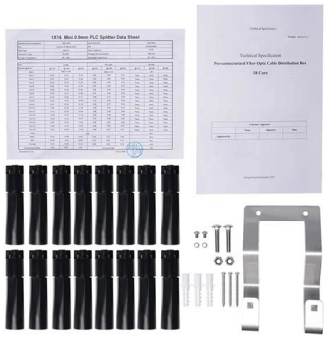

Eye tracking and eye expression decoding based on transparent

Here, a transparent, flexible and ultra-persistent electrostatic sensing interface is proposed for realizing active eye tracking (AET) system based on the elec-trostatic induction effect.

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Design and optimization of a conical electrostatic objective lens of a

A conical electrostatic objective lens with a 60-degree corn angle for low-voltage scanning electron microscopes has been designed for the high performance, ultra-high vacuum environments,

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Realistic 3D implementation of electrostatic elements for low energy

Novel antimatter experiments at CERN require high intensity, low energy (Contact Us

ELECTROSTATIC PRECIPITATION OF NANOPARTICLES AND

Electrostatic precipitators (ESPs) are highly efficient and versatile devices for gas-solid separation in applications including prevention of emissions of particles to the atmosphere, or the

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Electronic textiles: New age of wearable technology for healthcare and

Fig. 6 shows an example of a future wearable e-textile sensing technology that can be highly beneficial for the care of the elderly to track movements and other parameters. The technology

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MEMS ultrasonic transducers for safe, low-power and portable eye

Low-power pulse-echo ultrasound featuring biosafety is transmitted and received by microelectromechanical system (MEMS) ultrasonic transducers seamlessly integrated on glasses.

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Development of a Low-Power Wearable Eye

Tracker

We have presented the first implementation of a low-power (below 50mW), binocular, stand-alone, wireless, wearable eye tracker based on a novel optoelectronic

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The Design and Performance Evaluation of an Eye

In this paper, we proposed an eye-tracking system featuring a small size and high scanning frequency, utilizing an electrostatic biaxial scanning mirror

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An ultra-low-power optical transmitter for linear-drive optical

This solution integrates the advantages of both low cost and low power, making it applicable in short-distance interconnection scenarios such as those between data center internal

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Lasers, Optical Amplifiers, and Laser Optics Mid-infrared optical switches enabled by metal-organic frameworks for compact high-power nanosecond laser sources at 3 μm

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