FRINDEL OPTICS

Latvian optical amplifiers are resistant to high temperatures

Latvian optical amplifiers are resistant to high temperatures

National Center for Biotechnology Information

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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High temperature resistant properties of polyimide coated optical fibre

Optical fibres were coated with polypyromellitimide (PPM) using their precursor polyamic acid to study the application of optical fibres at elevated temperatures. Normally optical fibres can withstand

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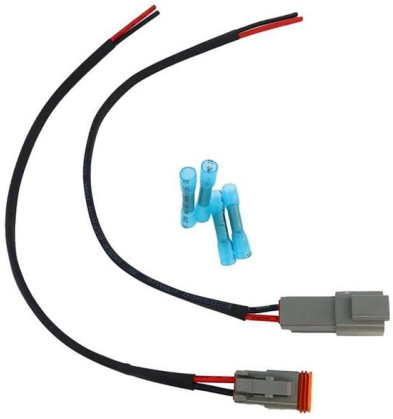

Optical materials laboratory , Institute of Solid State

A publication studying optical properties of strontium aluminate has been submitted and is being reviewed. We're also happy to announce that

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Optical Amplifiers and their Applications [and Discussion]

all-optical processing. Currently, most research is concerned with amplifiers based on semiconductor laser structures or optical fibre. These two classes of amplifiers can provide high gain with wide

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Thermo-optical effects in high-power Ytterbium-doped fiber amplifiers

Abstract: We investigate the effect of temperature gradients in high-power Yb-doped fiber amplifiers by a numerical beam propagation model, which takes thermal effects into account in a self-consistent way.

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Optical Fiber Sensors for High-Temperature Monitoring: A Review

The commonly employed high-temperature sensing fibers mainly include silica fibers and crystal fibers. Theoretically, the maximum temperature that a temperature sensor can withstand depends primarily

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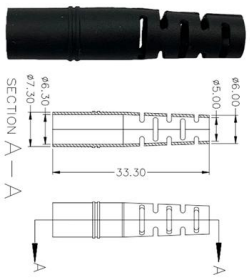

A High-Slew Rate SiGe BiCMOS Operational Amplifier for

We investigate, for the first time, the design and implementation of a high-slew rate op-amp in SiGe BiCMOS technology capable of operation across very wide temperature ranges, and

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Laboratory of Organic Materials

Using the concepts derived from the studies, new materials with improved properties are designed in close cooperation with Latvian and foreign chemists. Assessment

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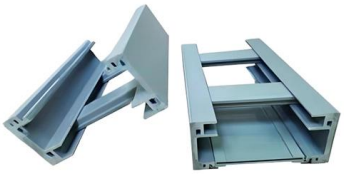

Optical Solutions Latvia

We have strong capabilities to produce various custom-made Infrared optical components and assemblies, like lenses, prisms, windows and filters from

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Weather in Riga

Winter weather Winter in Latvia usually spans from December to February. The temperature in winter warries from 0° Centigrade

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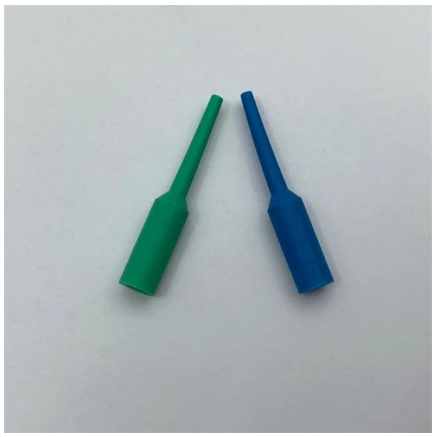

Modeling degraded performance metrics of optical amplifiers under

The technological assessment of high data rate laser link modulators in space was initiated by ESA in 1977 . As optical space communications is on the verge of becoming a reality in small

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Optical fiber assemblies for high temperature environments

Extreme Temperatures Optical fiber assemblies resistant to extreme temperatures Thanks to its know-how and expertise, SEDI-ATI Fibres Optiques can offer you

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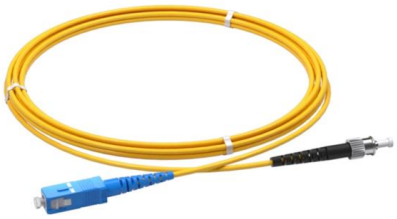

Paper Title (use style: paper title)

In this paper we present the development of a SFF radiation resistant optical pre-amplifier suitable for compact laser communication terminals carried out within the framework of the ORIONAS H2020

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Compact radiation resistant, high-gain optical fiber preamplifier for

We present the development of a radiation resistant erbium doped fiber pre-amplifier suitable for integration in small satellite laser communication terminals. The work has been performed within the

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Operational amplifiers operating in temperature range from 300 to 4.2

We present preamplifiers for frequencies from dc to few 10 MHz operating over temperature range from 300 to 4.2 K. Typical application of these circuits which use CMOS

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Optical Fiber Sensors for High-Temperature Monitoring:

This paper reviews the sensing principle, structural design, and temperature measurement performance of fiber-optic high-temperature sensors,

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Design of a high temperature resistant instrument amplifier using high

The simulation results show that the proposed high-temperature gain self-calibration technology can solve the problems of offset voltage, noise increase and closed-loop gain accuracy

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Thermal noise and mechanical loss of SiO /Ta optical coatings at

In this Letter, we present direct CTN measurements of SiO2/Ta2O5using the most stable cav- ities in operation today at cryogenic temperatures up to room temperature. Highly reflective

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US6347106B1

In devices such as laser diodes, light emitting diodes and optical amplifiers, these thermal effects can be catastrophic. The most common way to solve the problem is to conduct the heat away to

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Thermal considerations in high power semiconductor

In this paper we describe empirical models for predicting the performance of high power lasers, semiconductor optical amplifiers, and

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Temperature-dependency performance of InGaAsP

We report on high quality InAs/InP quantum dot optical amplifiers for the 1550 nm wavelength range operating over a wide temperature range of 25 to

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Highly Heat-Resistant Polymeric Coatings of Optical Fibers , Polymer

The most common solution to this problem is the use of polyimides characterized by unique chemical, radiation, and thermal resistance [17, 29]. The review discusses the manufacturing

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Operating limits for RF power amplifiers at high junction temperatures

Request PDF , Operating limits for RF power amplifiers at high junction temperatures , LDMOS RF--power amplifier components usually operate under severe conditions challenging long

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Operational Amplifier Characterization at Cryogenic Temperatures

A boost DC-DC converter has been chosen for the voltage step-up. This solution requires an analog feedback loop control with discrete components working at cryogenic

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Optical Amplifiers: A Comprehensive Guide

Introduction to Optical Amplifiers Optical amplifiers are a crucial component in modern optical communication systems, enabling the transmission of high-speed data over long distances without

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Optical Fiber Amplifiers for Satellite Communications

Optical fiber amplifiers are crucial components for medium to long range space-based optical telecommunications networks. Current systems leverage technologies from the mature

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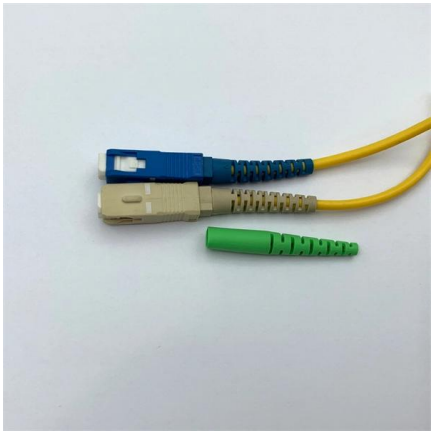

Design of a high temperature resistant instrument amplifier using high

During deep well exploration, there may be a high temperature environment of more than 100 °C, and under such high temperatures, the entire circuit system will have many problems .

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Characterisation of operational amplifiers at cryogenic temperatures

In this paper, we present the results of the testing of a variety of commercial operational amplifiers. CMOS, JFET and bipolar operational amplifiers were tested under cryogenic temperature conditions

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Radiation-resistant optical fiber amplifiers for satellite communications

Optical fiber amplifiers are key building blocks in laser communication terminals and telecom photonic payloads. In this paper we present 1.55& mu;m booster amplifiers and pre-amplifiers suitable for

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For datasheets, pricing, or custom fiber access solutions, please visit: https://www.frindel.es