

Ps pulse-driven laser diode





Ps pulse-driven laser diode



Design of High Peak Power Pulsed Laser Diode Driver

A design guide is summarized from the derivations and analysis of the proposed laser diode driver. According to the design guide, we selected the capacitor, resistor, and diode

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High-repetition-frequency high-power pulsed laser diode driver

Here we propose a high-repetition-frequency high-power pulse power supply for laser diode driving by using frequency synthesis technique. This technique generates a high repetition

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SHORT PULSE LASER DIODE DRIVER

Description The PLD-PS is a compact short-pulse seed laser diode driver for powering 10/14-pin butterfly laser diode modules for applications, which require pulse widths about 50 ps. The pulse

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Drive Electronics for Pulsed Laser Diodes

In portable optoelectronic measurement technology laser sources are getting smaller and more affordable in areas such as distance and speed

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Picosecond Diode Lasers with Driver: PICOPOWER -LD Series

Features Laser pulses as short as 12 ps for specific wavelengths More than 2 W peak power for specific wavelengths Proprietary high-frequency design for the shortest & highest peak power diode laser

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A Double Pulse Overlapping Laser Diode Driver With Minimum 100-ps Pulse

This work introduces a new laser diode driver (LDD) structure for high-resolution and long-range LiDAR transmitter (TX) system. It features a double pulse overlapping (DPO) scheme to generate ultra-short

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Picosecond Diode Lasers with Driver: PICOPOWER(TM)

The ALPHALAS PICOPOWER(TM)-LD Series of Picosecond Diode Lasers with Driver are available with the following standard wavelengths: 375, 405, 450, 488, 510,

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Ultrafast lasers Archives



Ultrafast lasers Ultrafast fiber lasers are transforming many different fields with their precision, efficiency, and versatility. They emit light pulses in the femtosecond to picosecond range.

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PLD-PS LASER DIODE DRIVER

Description The PLD-PS is a compact short-pulse seed laser diode driver for powering 10/14-pin butterfly laser diode modules for applications, which require pulse widths about 50 ps. The pulse

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Picosecond Diode Lasers with Driver: PICOPOWER -LD Series

Laser pulses as short as 12 ps and more than 2 W peak power for specific wavelengths. Exchangeable laser heads.

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PLD-PS short pulse laser diode driver

The PLD-PS is a compact short-pulse seed laser diode driver for powering 10/14-pin butterfly laser diode modules for applications, which require pulse widths about

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Portable laser diode module of sub-10 ps gain-switched

We demonstrated a palm-sized portable uncooled laser diode module that generated repetition-rate-tunable gain-switched optical pulses with a sub-10

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Versatile high power pulse-laser source for pico

This paper presents a pulse-laser source for the generation of ps and ns laser pulses with more than 50 W peak output power. The final stages of the drivers use GaN transistors and are

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An Introduction to Pulsed-Current Laser Diode Drivers

For the purposes of this discussion, we define a pulsed-current driver as an electronic module or instrument that generates constant-current pulses. (A voltage pulser, which generates constant

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Design of Nanosecond Pulse Laser Diode Array Driver

The pulse laser emission circuit plays a crucial role as the emission unit of time-of-flight (TOF) LiDAR. This paper proposes a nanosecond-level pulse

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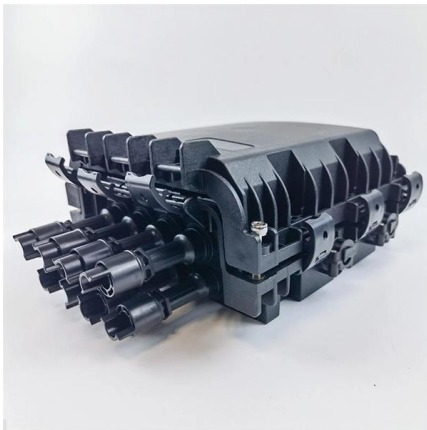




A Double Pulse Overlapping Laser Diode Driver With Minimum 100-ps

Fabricated in a 180-nm high-voltage BCD process, the two implemented TX systems achieve a minimum pulsewidth of 100 ps or a maximum output current of 15 A within 1-ns pulsewidth. Light

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Wuhan Raycus Fiber Laser Technologies Co., Ltd.

About Raycus Wuhan Raycus Fiber Laser Technologies Co., Ltd. (hereinafter referred to as "Wuhan Raycus") is the first Chinese enterprise

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PULSED Laser Diode Drivers (PICOSECOND to CW)

How to Choose a Pulsed Laser Diode Driver: A short tutorial explaining how pulsed drivers function and the most important factors to consider when making a choice.

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(PDF) A low-cost high-repetition-rate picosecond laser

The typical optical power with a standard laser diode at 660 nm (45 mW continuous) is 1.7 mW with a repetition rate of 80 MHz and a pulse width

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Laser Diode Drivers

Laser diode drivers supply electronic current to laser diodes, with different requirements based on application and power level.

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100 ps Optical pulse generator using laser diodes for visible light

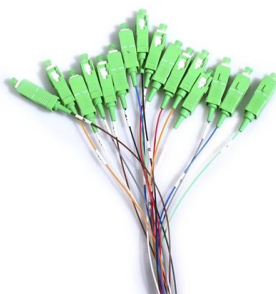
Request PDF , 100 ps Optical pulse generator using laser diodes for visible light communication applications , We present a simple ultrashort optical pulse generator based on step

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Femtosecond Lasers - ultrashort pulses, mode-locked

Femtosecond lasers are lasers emitting light pulses with durations between a few femtoseconds and hundreds of femtoseconds.

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Pulsed Laser Diodes

Pulsed laser diodes have their roots in military applications. They are ideally suited to rangefinding thanks to their

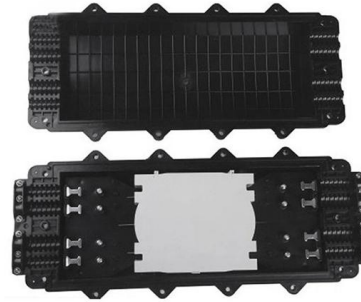
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Pulse Diode Lasers for Precise Research

Picosecond-Diode Lasers for Time-Resolved Spectroscopy Designed and manufactured by Becker & Hickl - High Performance picosecond diode lasers

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Pulsed laser diode driver

This pulsed laser diode driver delivers high-precision pulses via an internal generator or an external TTL signal. Compatible with most laser diode form factors, it drives

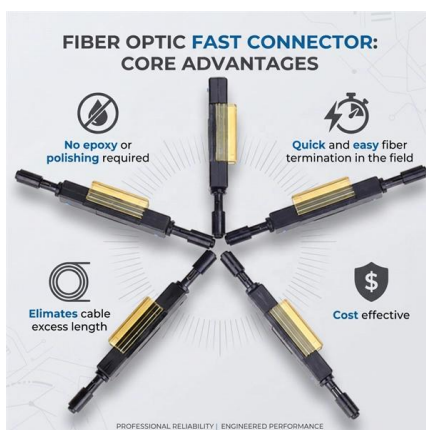
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Design of High Peak Power Pulsed Laser Diode Driver

This paper attempts to describe a laser diode driver circuit using the depletion mode gallium nitride high electron mobility transistor (D-mode GaN)



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Pulse Circuits for Infrared LEDs and Visible Diode Lasers

Photodetectors suitable for studying pulsed infrared LEDs and visible diode lasers include high-speed Si PIN diodes with fast rise and fall times of less than 10 ns.

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SHORT PULSE LASER DIODE DRIVER

LASER DIODE DRIVER Key Features Special Design for 10/14 pin Butterfly Laser Diode Output current up to 2000 mA Compliance voltage up to 3 V Extra short 50 ps pulse width

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SHORT PULSE LASER DIODE DRIVER

Description The PLD-NS is a compact short-pulse seed laser diode driver for powering 10/14-pin butterfly laser diode modules for applications, which require pulse widths from 1 ns to 100 ns. The

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