

Pulsed laser diode speed



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Laser speed guns are a typical application for pulsed laser diodes. Using pulse lengths of < 10 ns and powers of up to 50 W, vehicle speeds of up to 250 km/h may be easily measured at ranges of up to ...



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 ...



This high power pulse laser diode generates nanosecond range optical pulses out of a multimode fiber. It includes a synchronization tool to generate any pulse or burst configuration for LIDAR, laser diode ...



For laser diodes targeted at pulsed operation, the actual laser die is quite small, especially for EELs. The high power dissipation during the pulse means that the average output power is usually limited to a ...



Learn how pulsed laser diodes work, which parameters matter most, and where they are used in LiDAR, metrology, sensing, and industrial laser systems.



All modules have a very high brightness with a typical output fiber core of 105 μm (62.5 μm also available as a special request). This makes it an ideal solution for LIDAR R& D or various laser ...



The two laser diodes in consideration are both 905-nm, 75-W rated, but it is possible to notice a large performance difference. Be sure to test devices that have similar specifications before selecting one ...



The photo receiver should have a high level of sensitivity in the relevant spectral range and as high a bandwidth as possible, from DC to the GHz range, so that both the amplitude of the laser pulses as ...



Thorlabs' Nanosecond Pulsed Laser Diode Systems are designed to provide a convenient, turnkey source of nanosecond pulse trains at repetition frequencies up to 10 MHz.



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This technique generates a high repetition frequency pulse through synthesizing the driving signals for multiple parallel switching transistors. The output characteristics of this pulse ...

Contact Us

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