

DVD Laser Diode Model Specifications Table



Article Overview

Key DVD laser diode models and their specifications, including wavelength, optical power, operating temperature, and package type.

Model	Manufacturer	Wavelength (nm)	Optical Power (mW)	Operating Temp. (°C)	Package Type	Notes
RLD2WMNL2	ROHM	650 (DVD), 780 (CD)	Low output, optimized for minimal current	-	CAN-type with sealed glass window	Stable operation up to 85°C, reduced operating current by 44% (DVD) and 43% (CD) compared to conventional diodes
RLD65MZT1	Rohm	650	Typical DVD-ROM red laser diode	-	Standard	Datasheet available for detailed electrical and optical characteristics
AD9665	Driver	-	-	-	Analog	Devices
650 (DVD)	-	-	-	-	Read channel continuous, Write channels 150-325 mA	-
ICFour-	-	-	-	-	channel driver for CD-RW/DVD-RW, LVDS/TTL interface, on-chip oscillator for modulation	-
LMH6525/6526	(Driver)	-	-	-	Texas Instruments	650 (DVD), 780 (CD)
Read 150 mA, Write 150-300 mA per channel	-	-	-	-	ICFour-channel driver, supports read/write/erase, LVDS interface, high-frequency modulator for noise reduction	-

Notes on Specifications

- Wavelength: DVD laser diodes typically operate at 650 nm (red) for DVD reading/writing and 780 nm for CD compatibility.
- Optical Power: Varies by model and application; low-output diodes are optimized for minimal current consumption while maintaining reliable read/write performance.
- Operating Temperature: Many modern diodes, such as the RLD2WMNL2, are designed for stable operation up to 85°C, ensuring reliability in diverse environments.
- Package Type: CAN-type packages with sealed glass windows are common for hig...



Article Content

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BlazingFast Photonics delivers high-speed optical transceivers, silicon photonics, co-packaged optics, OSFP 1.6T modules, laser

Dual-Output, Multimode CD-RW/DVD Laser-Diode Drivers

Dual-Output, Multimode CD-RW/DVD Laser-Diode Drivers General Description The MAX9483/MAX9484 high-performance,

DVD Formats and How to Drive Laser Diodes to Record and Rewrite

DVDs This application note describes the use and features of six available DVD formats: DVD-ROM, DVD-R, DVD-RW, DVD-RAM,

Laser Diodes by Wavelength

We also offer optoelectronics mounts that directly accommodate many of our laser diode package options. The Laser Diode

Dvd Writer Laser Diode Datasheet

The Dvd Writer Laser Diode Datasheet might seem like a highly technical document, but it's the key to understanding the heart of

Laser Diodes

ROHM Laser Diodes ROHM, among the leading laser diode manufacturers, offers a wide lineup of high-reliability laser diodes, from

DVD Laser Diode Datasheet: Key Specifications and Performance ...

When exploring a DVD laser diode datasheet, it is essential to familiarize yourself with the various specifications and parameters

RLD2WMNL2_Low Output 2-Wavelength Laser Diode for DVD/CD

Low operating current and guaranteed operation up to 85°C - ideal for car navigation and DVD systems Product Outline ROHM's

DVD Formats and How to Drive Laser Diodes to Record and ...

The drivers consist of three input channels, a read channel with RF oscillator and two precision current amplifier

Optical disc drive

In computing, an optical disc drive (ODD) is a disc drive that uses laser light or electromagnetic waves within or near the visible light

Laser Diodes by Wavelength

The Laser Diode Selection Guide provides a comprehensive list of all laser diodes available from stock,

DVD Laser Diode: A Comprehensive Guide to Choosing the

This blog explains what a DVD laser diode is and its role in reading data from discs. It covers compatibility, specifications, and how to

Two-Wavelength DVD Player Laser Diode Improves Optical System

The resistance to ESD in the DVD side has been increased to over 80 V, twice that of the earlier SLD6163RL, and thus this device

RLD2WMNL2_Low Output 2-Wavelength Laser Diode for DVD/CD

An optically transparent real index guide is utilized to minimize loss due to light absorption, allowing operation with minimal current.

Comparison of high-definition optical disc formats

Comparison of optical properties and physical layout of various optical storage media
This article compares the technical

Laser Diodes GH06550B2B GH06550B2B High Power Red Laser

SHARP reserves the right to make changes in the specifications, characteristics, data, materials, structure, and other contents

Dvd Laser Diode Datasheet

A Dvd Laser Diode Datasheet is essentially a detailed technical specification document provided by the laser diode manufacturer. It

CD, DVD and HD-DVD specifications. | Download Table

Download Table | CD, DVD and HD-DVD specifications. from publication: Triple-wavelength optical pickup

Laser Diode Selection Guide

The table below lists all laser diodes available from stock, sorted by wavelength and then output power. Key specifications are

An Introduction to Laser Diodes

An Introduction to Laser Diodes Learn about the laser diode, including package types, applications, drive circuitry, and

Laser Diode Specifications & Characteristics Explained

Understand laser diode specifications and characteristics and how they relate to real circuits and applications with tips on the

Datasheet Archive: LASER DIODE DVD ROM datasheets

View results and find laser diode dvd rom datasheets and circuit and application notes in pdf format.

Understanding the 780nm Laser Diode for DVD Applications: A ...

This blog explains the role of a 780nm laser diode in DVD players, detailing how it reads data from discs using a focused light beam.

2-Wavelength Laser Diodes for DVD/CD Playback

If you wish to use any such Product, please be sure to refer to the specifications, which can be obtained from ROHM upon

LaserDisc

LaserDisc was largely supplanted by the DVD format by the early 2000s. The last LaserDisc title released in North America was

Laser Diodes

A laser diode generates some heat at the junction points with a long time of electric current like general semiconductors. As a result,

DVD LASER Datasheet (PDF)

Searched Keyword: DVD LASER . Part #: RLD65MZT1. Datasheet: 75Kb/2P.

Description: DVD-ROM red laser diode. Manufacturer:

LaserDisc player

From 1978 until 1984, all LaserDisc player models read discs by using a helium-neon laser. In 1984, Pioneer Corporation introduced

DVD LASER Datasheet (PDF)

Description: DVD-ROM red laser diode. Manufacturer: Rohm. 3,204 Results. Part #: RLD65MPT5. Datasheet: 72Kb/4P.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.watermanfinance.co.za>

Email: sales@watermanfinance.co.za

Phone: +49-176-8294713

Address: Neue Mainzer Str. 66-68, 60311 Frankfurt am Main, Germany

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