

Low Output 2-Wavelength Laser Diode for DVD/CD Playback

RLD2WMNL2 Series



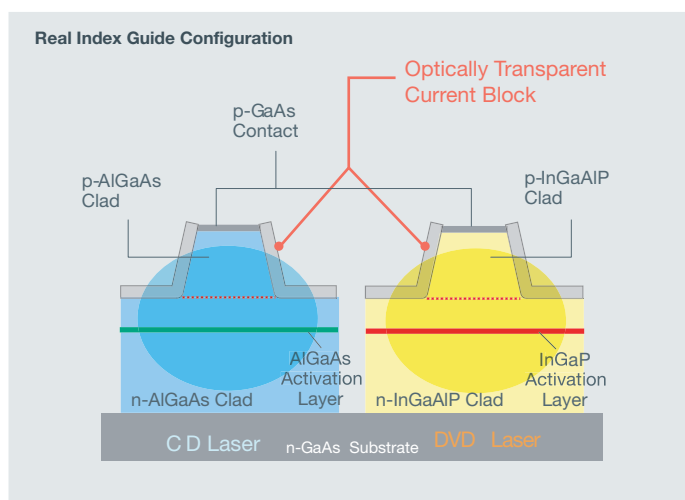
Low operating current and guaranteed operation up to 85°C - ideal for car navigation and DVD systems

Product Outline

ROHM's dual-wavelength laser diode was designed for DVD and navigation systems exposed to harsh environments, such as in cars. An original structure is utilized for low current operation and stable operation up to 85°C. The package features a CAN-type structure with a sealed glass window, providing a high degree of reliability under virtually any environment.

■ New waveguide enables low current operation

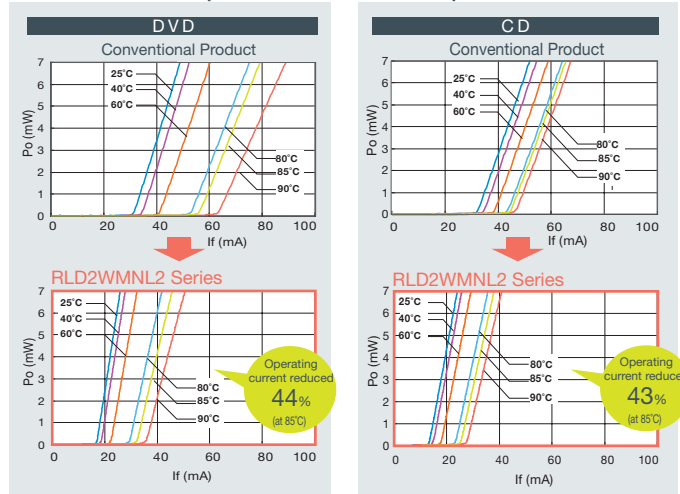
An optically transparent real index guide is utilized to minimize loss due to light absorption, allowing operation with minimal current.



■ High temperature operation (85°C)

The proprietary structure ensures stable operation up to 85°C, reducing operating current by 44% and 43% over conventional DVD and CD laser diodes, respectively.

Temperature Characteristics Comparison

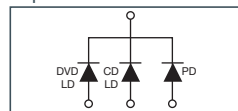


Specifications

Absolute Maximum Ratings

Part No.	Light Output Po (mW)	Reverse Voltage VR (V)	Operating Temp. Topr (°C)	Storage Temp. Tstg (°C)
RLD2WMNL2	7/7	2	-30 to +85	-40 to +85

Equivalent Circuit



Electrical • Optical Characteristics (Tc=25°C, Po=5mW)

Part No.	Oscillation Wavelength λp (nm)	Threshold Current Ith (mA)	Operating Current Iop (mA)	Operating Voltage Vop (V)	Monitor Current Im (mA)	Horizontal Divergence qH(deg)	Vertical Divergence qV(deg)
RLD2WMNL2	663/785	18/15	24/20	2.3/1.8	0.25/0.25	10/10	28/32

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