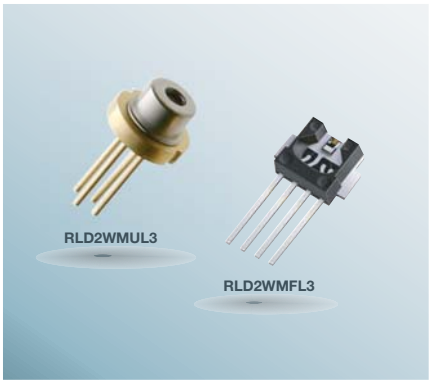
2-Wavelength Laser Diodes for DVD/CD Playback

RLD2WMUL3 / RLD2WMFL3 Series



Supports high temperarure operation for gaming consoles and portable equipment

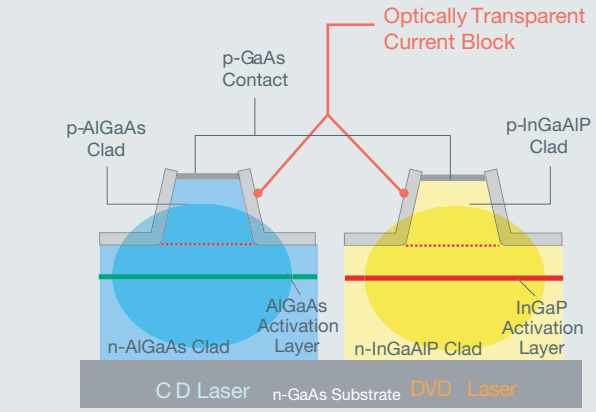
Product Outlin

ROHM's new dual-wavelength laser diodes for CD/DVD playback feature a higher operating temperature range than conventional products, making them ideal for gaming systems and portable devices. An original device structure is used for low current, high temperature (up to 80˚C) operation. Two package types are offered, the standard 5.6φ CAN type (open spec with no glass window) and ROHM's original high heat dissipation resin mold frame package.

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.

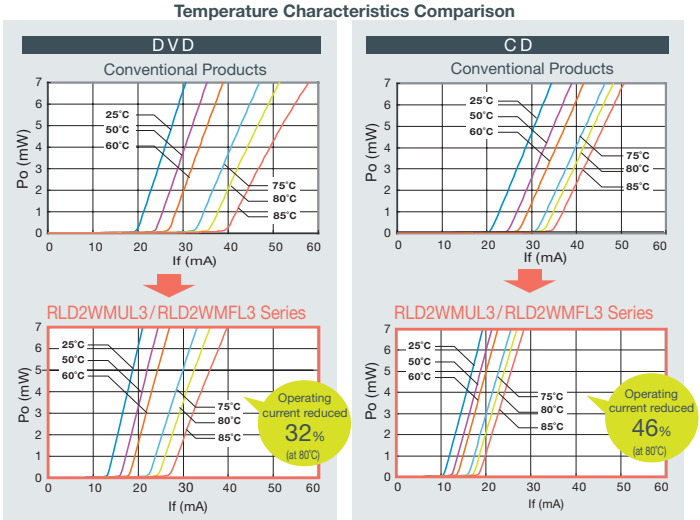
Real Index Guide Configuration



High temperature operation (80˚C)

Operating current is reduced by 32% and 46% for DVD and CD playback, respectively, compared with conventiona l products (RLD2WMUV2 / RLD2WMFV2). Stable operation is guaranteed up to 80˚C , 5˚Cmore than standard models.

Temperature Characteristics Comparison

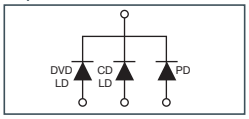


Specifications

Absolute Maximum Ratings

Part No.	Light Output Po (mW)	Reverse Voltage VR (V)	Operating Temp. Topr (˚C)	Storage Temp. Tstg (˚C)
RLD2WMUL3	7/7	2/2	-10 to +80	-40 to +85
RLD2WMFL3	7/7	2/2	-10 to +80	-40 to +85

Equivalent Circuit



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

Part No.	Oscillation Wavelength lp (nm)	Threshold Current Ith (mA)	Operating Current Iop (mA)	Operating Voltage Vop (V)	Monitor Current Im (mA)	Horizontal Divergence q//(deg)	Vertical Divergence q⊥(deg)
RLD2WMUL3	658/782	13/12	18/17	2.2/1.8	0.25/0.25	8.5/10	27/32
RLD2WMFL3	658/782	13/12	18/17	2.2/1.8	0.15/0.17	8.5/10	27/32

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