

Product	Laser diode
Package	RLD78NZM5

Materials	Flow chart			Name of process	Used equipment & machine	Controlled item
	Material acceptance	Preparatory process	Main Process			
LD chip	<pre> graph TD Start(()) --> A1{1} A1 --> P2((2)) P2 --> A3{3} A3 --> P4((4)) P4 --> P5((5)) P5 --> A6{6} A6 --> P7((7)) P7 --> A8{8} A8 --> P9((9)) P9 --> A10{10} </pre>			Acceptance test	Visual	Appearance
Submount				Chips preparation	Braking machine Expander	Appearance Air pressure Temperature
				Acceptance test	Microscope	Appearance
				Die-&wire-bonding(1)	ALDW40	Temperature DB load Ultrasonic power WB load
				Measurement	ALDW40	Probe state I-L characteristics I-V characteristics
Stem				Inspection(1)	Tension gauge	Wire-pull resistivity Peel-off resistivity
Pin Photo Di				Die-&wire-bonding(0)	APDW	Temperature Ultrasonic power
Ag paste				Inspection(0)		PD,DB position Wire-pull resistivity
Bondhing agent				Die-&wire-bonding(2)	ASDW	Peel-off resistivity Temperature DB load Ultrasonic power
				Inspection(2)	Microscope Tension gauge FFP standard Correct monitorscope	Wire-pull resistivity DB load Facet inclination △XYZ

Materials	Flow chart			Name of process	Used equipment & machine	Controlled item
	Material acceptance	Preparatory process	Main Process			
Cap				Can sealing	AACL	Air pressure N2 pressure Humidity
				Inspection for sealing	Cutting nipper Micrometer Correct monitorscope	Weld strength Weld extrusion Degree of decentering
				Products burn-in test	AATB	Set temperature I-L characteristics (100% test)
				Final measurement Marking	ATMS	Temperature I-L characteristics I-V characteristics Positional accuracy FFP Wavelength Appearance (100% test)
				Appearance check	Microscope	Crazing and dirt of lens Flaws of stem In deposition (100% test)
				Quantity treatment	Calculator	Quantity check
				Packing		Slip Indication check
				Shipment inspection		Outer label and contents check
				Packaging		Detailed statement for shipment Packing condition
				Shipment		

Notes

- 1) The information contained herein is subject to change without notice.
- 2) Before you use our Products, please contact our sales representative and verify the latest specifications :
- 3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors.
Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Products beyond the rating specified by ROHM.
- 4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.
- 5) The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.
- 6) The Products are intended for use in general electronic equipment (i.e. AV/OA devices, communication, consumer systems, gaming/entertainment sets) as well as the applications indicated in this document.
- 7) The Products specified in this document are not designed to be radiation tolerant.
- 8) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.
- 9) Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.
- 10) ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.
- 11) ROHM has used reasonable care to ensure the accuracy of the information contained in this document. However, ROHM does not warrant that such information is error-free, and ROHM shall have no responsibility for any damages arising from any inaccuracy or misprint of such information.
- 12) Please use the Products in accordance with any applicable environmental laws and regulations, such as the RoHS Directive. For more details, including RoHS compatibility, please contact a ROHM sales office. ROHM shall have no responsibility for any damages or losses resulting from non-compliance with any applicable laws or regulations.
- 13) When providing our Products and technologies contained in this document to other countries, you must abide by the procedures and provisions stipulated in all applicable export laws and regulations, including without limitation the US Export Administration Regulations and the Foreign Exchange and Foreign Trade Act.
- 14) This document, in part or in whole, may not be reprinted or reproduced without prior consent of ROHM.



Thank you for your accessing to ROHM product informations.
More detail product informations and catalogs are available, please contact us.

ROHM Customer Support System

<http://www.rohm.com/contact/>