

Product	Laser diode
Package	RLD78NZM5
Weight(mg)	317.4541

The RoHS directive,REACH regulation,and other laws and regulations related to the management of environmentally hazardous substances come into effect. When developing products, the global environmental load must be considered. ROHM pursues green procurement and endeavors to increase the detection accuracy of chemicals contained in parts and procured materials while at the same time placing great importance on the internal chemical management system that was built to ensure that no prohibited substances are procured, used, or shipped in order to provide a steady supply of worry-free products.

OThis item is in compliance with RoHS. OPb free

No.	Part Name		Substance Name	CAS No.	Weight [mg]	Content	
	LD Die		GaAs	7440-38-2	0.0321	98.0111%	
1			Titanium (Ti)	7440-32-6	0.0001	0.3043%	
			Aluminium(Al)	7429-90-5	0.0004	1.0781%	
			Gold(Au)	7440-57-5	0.0002	0.6065%	
	PD Die		Silicon(Si)	7440-21-3	0.2572	99.3779%	
2			Aluminium(Al)	7429-90-5	0.0009	0.3284%	
			Gold(Au)	7440-57-5	0.0008	0.2934%	
			Silver(Ag)	7440-22-4	0.0326	72.5000%	
	Die attach		Bisphenol A Diglycidyl Ether Resin(C18H21ClO3)	2506-83-86	0.0018	4.0000%	
3			N,N-Diglycidyl-4-Glycidyloxy Aniline(C15H19N04)	5026-74-4	0.0027	6.0000%	
-			Epoxy Resin	_	0.0046	10.2500%	
			Dicyandiamide (C2H4N4)	461-58-5	0.0003	0.7500%	
			Diethyleneglycol monoethyl ether acetate	112-15-2	0.0029	6.5000%	
	Submount Die		Silicon(Si)	7440-21-3	0.4287	98.8927%	
			Titanium (Ti)	7429-90-5	0.0028	0.6505%	
4			Aluminium(Al)	7440-57-5	0.0013	0.2907%	
			Gold(Au)	7440-32-6	0.0000	0.0046%	
			Tin(Sn)	7440-31-5	0.0007	0.1615%	
5	Die	e attach	Indium(In)	7440-74-6	0.1300	100.0000%	
			Iron(Fe)	7439-89-6	226.1900	99.3805%	
		Base material	Carbon(C)	7440-44-0	0.2700	0.1186%	
			Mangan (Mn)	7439-96-5	1.1400	0.5009%	
			Iron(Fe)	7439-89-6	14.7500	51.0204%	
	Stem	Lead pin	Nickel(Ni)	7440-02-0	9.2500	31.9958%	
			Cobalt(Co)	7440-48-4	4.9100	16.9837%	
		Stem Glass Plating	Silicon oxide(SiO2)	7631-86-9	1.9500	65.0000%	
6			Aluminium oxide(Al2O3)	1344-28-1	0.2100	7.0000%	
			Sodium oxide(Na2O)	1313-59-3	0.2100	7.0000%	
			Potassium oxide(K2O)	12136-45-7	0.2100	7.0000%	
			Lithium oxide(Li2O)	12057-24-8	0.0300	1.0000%	
			Barium oxide(BaO)	1304-28-5	0.2700	9.0000%	
			Zinc oxide(ZnO)	1314-13-2	0.1200	4.0000%	
			Nickel(Ni)	7440-02-0	6.1600	97.0079%	
			riaung	Gold(Au)	7440-57-5	0.1900	2.9921%

No.	Part Name		Substance Name	CAS No.	Weight [mg]	Content
			Iron(Fe)	7439-89-6	20.4000	50.0000%
		Base material	Nickel(Ni)	7440-02-0	20.4000	50.0000%
		Window glass	Silicon Dioxide(SiO2)	7631-86-9	2.9400	64.9007%
			Boron trioxide(B2O3)	1303-86-2	0.2500	5.5188%
			Zinc oxide(ZnO)	1314-13-2	0.2500	5.5188%
			Titanium dioxide(TiO2)	13463-67-7	0.2500	5.5188%
			Aluminium oxide(Al2O3)	1344-28-1	0.2500	5.5188%
			Sodium oxide(Na2O)	1313-59-3	0.2500	5.5188%
			Potassium oxide(K2O)	12136-45-7	0.2500	5.5188%
_	0		Calcium oxide(CaO)	1305-78-8	0.0450	0.9934%
7	Сар		Sulfur(S)	7704-34-9	0.0450	0.9934%
		Anti Reflection coating	Other	-	0.0140	100.0000%
		Low-melting glass	Tellurium dioxide(TeO2)	7446-07-3	1.3200	42.9967%
			Barium oxide(BaO)	1304-28-5	0.3200	10.4235%
			Boron trioxide(B2O3)	1303-86-2	0.2200	7.1661%
			Zinc oxide(ZnO)	1314-13-2	0.1400	4.5603%
			Zirconium Silicate(ZrSiO4)	10101-52-7	1.0700	34.8534%
		Plating	Nickel(Ni)	7440-02-0	2.1400	99.5349%
			Other	_	0.0100	0.4651%
	Bonding wire		Gold(Au)	7440-57-5	0.1300	99.9898%
8			Beryllium(Be)	7440-41-7	0.0000	0.0009%
			Other	_	0.0000	0.0092%

Disclaimer

•All information in this document is furnished for exploratory or indicative purposes only.

• This information provides estimates of the average weights and content of component materials. and does not include impurities or metals diffused in the silicon.

•ROHM strives for the accuracy of the information, however, ROHM does not give any representations or warranties as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information.

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