

Product	LED
Series	SML-S13RT
Mass (mg)	7.686034

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.

○ This item is in compliance with RoHS.

○ Pb free

製品本体 Product										
No	構成材料 Part Name		部位重量 Weight (mg)	物質名 Substance Name	CAS No	含有量 Weight (mg)	含有率(%) (vs. 製品重量) Portion vs. Products	含有率(%) (vs. 構成材料) Portion vs. Part Name		
1	基板 Substrate	基材 Substrate Material	3.657034	エポキシ樹脂	Epoxy Resin	—	1.810000	23.5492	49.4937	
				ガラスクロス	Glass Cloth	—	1.490000	19.3858	40.7434	
				銅	Copper(Cu)	7440-50-8	0.260000	3.3828	7.1096	
				チタン化合物	Titanium Chemical Compound	—	0.000006	0.0001	0.0002	
				ニッケル	Nickel(Ni)	7440-02-0	0.020000	0.2602	0.5469	
				亜鉛	Zinc(Zn)	7440-66-6	0.075000	0.9758	2.0508	
				砒素	Arsenic(As)	7440-38-2	0.000020	0.0003	0.0005	
				金	Gold(Au)	7440-57-5	0.000008	0.0001	0.0002	
		端子処理 Electrode		レジスト Resist	エポキシ樹脂	Epoxy Resin	—	0.001000	0.0130	0.0273
					着色顔料	Dye	—	0.001000	0.0130	0.0273
2	ダイボンディング材 Die-Bonding Paste	0.050000	銀	Silver(Ag)	7440-22-4	0.040500	0.5269	81.0000		
			ビスフェノールA型エポキシ樹脂	Bisphenol A Epoxy Resin	9003-36-5	0.006000	0.0781	12.0000		
			その他	Other	-	0.003500	0.0455	7.0000		
3	ボンディングワイヤー Bonding wire	0.010000	金	Gold(Au)	7440-57-5	0.010000	0.1301	100.0000		
4	封止樹脂 Resin	3.900000	ビスフェノールAジグリシジルエーテル	Bisphenol A diglycidyl ether(BADGE)	25068-38-6	3.900000	50.741	100.0000		
5	LED素子 LED Die	0.069000	ガリウム	Gallium(Ga)	7440-55-3	0.040100	0.5217	58.1159		
			砒素	Arsenic(As)	7440-38-2	0.026300	0.3422	38.1159		
			インジウム	Indium(In)	7440-74-6	0.000400	0.0052	0.5797		
			アルミニウム	Aluminum(Al)	7429-90-5	0.000200	0.0026	0.2899		
			リン	Phosphorus(P)	7723-14-0	0.000400	0.0052	0.5797		
			金	Gold(Au)	7440-57-5	0.000900	0.0117	1.3043		
			その他	Other	—	0.000700	0.0091	1.0145		
Total					—	7.686034	100.0000			

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