

Product	LED
Series	SMLA1xWBC
Mass (mg)	3.150031

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		部重量 Part Weight (mg)	物質名 Substance Name	CAS No	含有量 Content Weight (mg)	含有率(%) (</製品重量) Content per Product Weight	含有率(%) (</構成材料) Content per Part Weight
1	基板 Substrate	基材 Substrate Material	エポキシ樹脂 Epoxy Resin	—	1.175000	37.3012	45.0186
			ガラスクロス Glass Cloth	—	1.011000	32.0949	38.7352
			銅 Copper(Cu)	7440-50-8	0.242000	7.6825	9.2719
			クロム及び3価クロム化合物 Chromium Chemical Compound	—	0.000005	0.0002	0.0002
			チタン化合物 Titanium Chemical Compound	—	0.015000	0.4762	0.5747
			ニッケル Nickel(Ni)	7440-02-0	0.061000	1.9365	2.3371
			亜鉛 Zinc(Zn)	7440-66-6	0.000020	0.0006	0.0008
			砒素 Arsenic(As)	7440-38-2	0.000006	0.0002	0.0002
			金 Gold(Au)	7440-57-5	0.002400	0.0762	0.0920
			錫 Tin(Sn)	7440-31-5	0.100000	3.1746	3.8314
		端子処理 Electrode	レジスト Resist Ink	エポキシ樹脂 Epoxy Resin	—	0.001800	0.0571
着色顔料 Dye	—			0.001800	0.0571	0.0690	
2	ダイボンディング材 Die-Bonding Paste	0.050000	銀 Silver(Ag)	7440-22-4	0.040500	1.2857	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	0.1905	12.0000
			その他 Other	-	0.003500	0.1111	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	0.3175	100.0000
4	封止樹脂 Resin	0.469000	エポキシ樹脂 Epoxy Resin	-	0.418817	13.2956	89.3000
			蛍光材 Phosphor	—	0.050183	1.5931	10.7000
5	LED素子 LED Die	0.011000	炭化シリコン Silicon carbide(SiC)	409-21-2	0.010700	0.3397	97.2727
			金 Gold(Au)	7440-57-5	0.000030	0.0010	0.2727
			その他 Other	—	0.000270	0.0086	2.4545
Total				—	3.150031	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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