


# MATERIAL DECLARATION SHEET



Material Number	SDR1005 Series (1R0~150)			
Product Line	SMD Power Inductor			
Compliance Date	2024/04/29			
RoHS Compliant	YES	MSL	1	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	CORE	Ferrite	0.665	Iron oxide (Fe2O3)	1309-37-1	62.0%	31.716%	51.15
				Cupric Oxide (CuO)	1317-38-0	10.0%	5.115%	
				Zinc oxide (ZnO)	1314-13-2	20.0%	10.231%	
				Nickel oxide (NiO)	1313-99-1	8.0%	4.092%	
2	WIRE	Copper alloy	0.299	Copper(Cu)	7440-50-8	100.0%	23.019%	24.23
		Resin	0.016	Polyurethane	9009-54-5	100.0%	1.212%	
3	Base	DAP	0.140	DAP	25035-78-3	25.0%	2.692%	10.76
				Filler	21645-51-2	45.0%	4.846%	
				Glass fiber	65997-17-3	30.0%	3.231%	
		C5191	0.030	Copper (Cu)	7440-50-8	93.6%	2.160%	2.31
				Tin (Sn)	7440-31-5	6.2%	0.143%	
				Phosphorus(P)	7723-14-0	0.2%	0.005%	
Plating-Sn	0.008	Tin (Sn)	7440-31-5	100.0%	0.615%	0.62		
Plating-Ni	0.002	Nickel (Ni)	7440-02-0	100.0%	0.154%	0.15		
4	Adhesive	Epoxy	0.020	Bisphenol A Epoxy Resin	25068-38-6	64.9%	0.998%	1.54
				Epoxy thinning agent	68609-97-2	5.3%	0.082%	
				carbon black	1333-86-4	5.3%	0.082%	
				Aluminum hydroxide	21645-51-2	24.5%	0.376%	

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6	Adhesive	Epoxy	0.050	Bisphenol A Epoxy Resin	25068-38-6	64.4%	2.477%	3.85
				Poly urethane	51852-81-4	7.0%	0.269%	
				Carbon black	1333-86-4	2.6%	0.100%	
				Silicon dioxide	14808-60-7	26.0%	1.000%	
7	Adhesive	Epoxy	0.050	reaction mixture of epichlorohydrin and bis-phenol A	25068-38-6	65.0%	2.500%	3.85
				Ground calcium carbonate	1317-65-3	35.0%	1.346%	
8	Solder bar	Tin	0.01	Tin (Sn)	7440-31-5	99.0%	0.762%	0.77
				Silver(Ag)	7440-22-4	0.5%	0.004%	
				Copper(Cu)	7440-50-8	0.5%	0.004%	
9	Solder wire	Tin	0.010	Tin (Sn)	7440-31-5	97.0%	0.746%	0.77
				Copper (Cu)	7440-50-8	3.0%	0.023%	
			Total weight					1.3

This Document was updated on: **2024/04/29**

### Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.