


# MATERIAL DECLARATION SHEET



Material Number	SRF1280 Series (471~102)			
Product Line	Shielded SMD Power Inductor			
Compliance Date	2024/2/23			
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	DR CORE	Ferrite	1.35	Iron oxide (Fe2O3)	1309-37-1	71.5%	23.629%	33.05
				Manganese oxide(MnO)	1344-43-0	18.5%	6.114%	
				Zinc oxide (ZnO)	1314-13-2	10.0%	3.305%	
2	RI CORE	Ferrite	1.26	Iron oxide (Fe2O3)	1309-37-1	52.0%	16.025%	30.82
				Zinc oxide (ZnO)	1314-13-2	15.0%	4.623%	
				Cupric oxide(CuO)	1317-38-0	17.0%	5.239%	
				Nickel oxide (NiO)	1313-99-1	16.0%	4.931%	
3	Base	LCP	0.200	Aromatic polyester resin	60088-52-0	60.0%	2.940%	4.9
				Glass fiber	65997-17-3	38.0%	1.862%	
				Carbon Black	1333-86-4	2.0%	0.098%	
		C5191	0.002	Copper (Cu)	7440-50-8	93.5%	0.046%	0.05
				Tin (Sn)	7440-31-5	6.2%	0.003%	
				Phosphorus(P)	7723-14-0	0.3%	0.0001%	
Plating	0.009	Tin (Sn)	7440-31-5	100.0%	0.176%	0.22		
		Nickel (Ni)	7440-02-0	100.0%	0.044%			
4	WIRE	Copper	1.20	Copper(Cu)	7440-50-8	100.0%	27.927%	29.4
		Resin		Polyurethane	9009-54-5	100.0%	1.470%	
5	Adhesive	Epoxy	0.03	Bisphenol A Epoxy Resin	25068-38-6	64.4%	0.316%	0.49
				Poly urethane	51852-81-4	7.0%	0.034%	
				Carbon Black	1333-86-4	2.6%	0.013%	

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				Silicon dioxide	14808-60-7	26.0%	0.127%	
6	Adhesive	Epoxy	0.03	Bisphenol A Epoxy Resin	25068-38-6	64.9%	0.477%	0.73
				Epoxy thinning agent	68609-97-2	5.3%	0.039%	
				carbon black	1333-86-4	5.3%	0.039%	
				Aluminium hydroxide	21645-51-2	24.5%	0.180%	
7	Solder	Tin	0.015	Tin (Sn)	7440-31-5	100.0%	0.245%	0.24
8	Tape	Tape	0.004	1,3-Benzenedicarbonyl dichloride, polymer with 1,3-benzenediamine	25765-47-3	96.0%	0.094%	0.10
				Ammonium polyphosphate	68333-79-9	1.0%	0.001%	
				2-Propenoic acid, polymer with butyl 2-propenoate and ethenyl acetate	25085-41-0	3.0%	0.003%	
		Total weight	4.1					

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