


# MATERIAL DECLARATION SHEET



Material Number	SRR0745HA Series			
Product Line	Shielded SMD Power Inductor			
Compliance Date	2023/12/5			
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	0.210	Iron oxide (Fe2O3)	1309-37-1	62.0%	14.795%	23.86%
				Cupric Oxide (CuO)	1317-38-0	10.0%	2.386%	
				Zinc oxide (ZnO)	1314-13-2	20.0%	4.773%	
				Nickel oxide (NiO)	1313-99-1	8.0%	1.909%	
2	RI CORE	Ferrite	0.400	Iron oxide (Fe2O3)	1309-37-1	62.0%	28.182%	45.45%
				Cupric Oxide (CuO)	1317-38-0	10.0%	4.545%	
				Zinc oxide (ZnO)	1314-13-2	20.0%	9.091%	
				Nickel oxide (NiO)	1313-99-1	8.0%	3.636%	
3	WIRE	Copper Wire	0.152	Copper(Cu)	7440-50-8	100.0%	17.273%	18.18%
		Coating	0.008	Polyurethane resin	9009-54-5	100.0%	0.909%	
4	Base	LCP	0.045	Aromatic polyester resin	60088-52-0	65.0%	3.324%	5.11%
				Glass fiber	65997-17-3	34.0%	1.739%	
				Carbon Black	1333-86-4	1.0%	0.051%	
		C5191	0.010	Copper (Cu)	7440-50-8	93.6%	1.064%	1.14%
				Tin (Sn)	7440-31-5	6.2%	0.070%	
				Phosphorus(P)	7723-14-0	0.2%	0.002%	
Plating	0.005	Tin (Sn)	7440-31-5	100.0%	0.455%	0.57%		
		Nickel (Ni)	7440-02-0	100.0%	0.114%			
5	Adhesive	Epoxy	0.03	reaction mixture of epichlorohydrin and bis-phenol A	25068-38-6	64.0%	2.182%	3.42%

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				Ground calcium carbonate	1317-65-3	36.0%	1.228%	
6	Solder bar	Tin	0.02	Tin (Sn)	7440-31-5	99.0%	2.250%	2.27%
				Silver(Ag)	7440-22-4	0.5%	0.011%	
				Copper(Cu)	7440-50-8	0.5%	0.011%	
		Total weight	0.88g					

**This Document was updated on:** 2023/12/5

**Important remarks:**

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