


# MATERIAL DECLARATION SHEET



Material Number	RL181S series			
Product Line	Radial Inductor			
Compliance Date	2022 / 09 / 05			
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	2.23	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	52.0	33.13	63.71
				Zinc oxide (ZnO)	1314-13-2	15.0	9.56	
				Cupric oxide(CuO)	1317-38-0	17.0	10.83	
				Nickel oxide (NiO)	1313-99-1	16.0	10.19	
2	Wire	Copper	0.8	Copper(Cu)	7440-50-8	95.0	21.71	22.85
				Polyurethane	9009-54-5	5.0	1.14	
3	Lead Wire	CP WIRE	0.1	Iron (Fe)	7439-89-6	76.0	2.17	2.86
				Copper (Cu)	7740-50-8	20.0	0.57	
				Tin (Sn)	7440-31-5	3.7	0.11	
				Nickel (Ni)	7740-02-0	0.3	0.01	
4	Adhesive	Adhesive	0.05	Epoxy Resin	25085-99-8	50.0	0.71	1.43
				Epoxide Diluent	26761-45-5	7.0	0.10	
				Dicyandiamide	461-58-5	6.0	0.09	
				Calcium carbonate	471-34-1	20.0	0.29	
				Aluminium hydroxide	21645-51-2	15.0	0.21	
				Carbon Black	1333-86-4	2.0	0.03	
5	Adhesive	Adhesive	0.2	Modified epoxy resin	25068-38-6	47.0	2.69	5.71
				Magnesium hydroxide	1309-42-8	53.0	3.02	
6	Adhesive	Adhesive	0.1	Polypropylene glycol bis(aminopropyl) ether	9046-10-0	100.0	2.86	2.86

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7	Solder bar	Tin	0.01	Tin (Sn)	7440-31-5	99.0	0.28	0.29
				Silver (Ag)	7440-22-4	0.5	0.005	
				Copper (Cu)	7440-50-8	0.5	0.005	
8	Ink	Ink	0.01	Titanium dioxide	13463-67-7	96.0	0.28	0.29
				Silica	112945-52-5	4.0	0.01	
		Total weight	3.5					

**This Document was updated on: 2022/9/5**

**Important remarks:**

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