


# MATERIAL DECLARATION SHEET



Material Number	SRR7045(181~102)			
Product Line	Shielded SMD Power Inductor			
Compliance Date	2018/07/02			
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 core	0.17	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	62.0	17.567	28.33
				Cupric Oxide (CuO)	1317-38-0	10.0	2.833	
				Zinc oxide (ZnO)	1314-13-2	20.0	5.667	
				Nickel oxide (NiO)	1313-99-1	8.0	2.267	
2	RI CORE	Ferrite core	0.145	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	62.0	14.983	24.17
				Cupric Oxide (CuO)	1317-38-0	10.0	2.417	
				Zinc oxide (ZnO)	1314-13-2	20.0	4.833	
				Nickel oxide (NiO)	1313-99-1	8.0	1.933	
2	Winding Wire	Copper wire	0.13	Copper(Cu)	7440-50-8	95.0	20.583	21.67
				Polyurethane resin	9009-54-5	5.0	1.083	
3	Base	LCP	0.05	Aromatic polyester resin	60088-52-0	61.0	5.083	8.33
				Glass fiber	65997-17-3	37.0	3.083	
				Carbon Black	1333-86-4	2.0	0.167	
		Copper alloy	0.01	Copper (Cu)	7440-50-8	93.6	1.560	1.67
				Tin (Sn)	7440-31-5	6.2	0.103	
				Phosphorus(P)	7723-14-0	0.2	0.003	
Plating	0.003	Tin (Sn)	7440-31-5	80.0	0.400	0.50		
		Nickel (Ni)	7440-02-0	20.0	0.100			
4	Adhesive	Adhesive	0.022	Bisphenol A Epoxy Resin	25068-38-6	59.0	2.160	3.67

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				2-Methyl imidazole	693-98-1	14.0	0.367	
				Carbon black	1333-86-4	5.0	0.183	
				Aluminium hydroxide	21645-51-2	22.0	0.807	
5	Adhesive	Adhesive	0.05	reaction mixture of epichlorohydrin and bis-phenol A	25068-38-6	64.0	5.333	8.33
				Calcium carbonate	1317-65-3	32.0	2.667	
				Thermoplastic copolymer	75701-44-9	4.0	0.333	
6	Solder	Sn	0.02	Tin (Sn)	7440-31-5	100.0	3.333	3.33
		Total weight	<b>0.60</b>					

**This Document was updated on: 2018/07/02**

**Important remarks:**

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