


# MATERIAL DECLARATION SHEET



Material Number	5800 Series			
Product Line	Power Inductor			
Compliance Date	2024/1/26			
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	0.696	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	52.0%	25.85%	49.71
				Zinc oxide (ZnO)	1314-13-2	15.0%	7.46%	
				Cupric oxide(CuO)	1317-38-0	17.0%	8.45%	
				Nickel oxide (NiO)	1313-99-1	16.0%	7.95%	
2	Lead Wire	CP WIRE	0.174	Copper (Cu)	7440-50-8	18.0%	2.24%	12.43
				Tin (Sn)	7440-31-5	7.9%	0.98%	
				Iron	7439-89-6	74.1%	9.21%	
3	WIRE	2-SFBW	0.3325	Copper(Cu)	7440-50-8	100.0%	23.75%	25.00
			0.0175	Polyester Resin	9009-54-5	100.0%	1.25%	
4	Adhesive	Epoxy	0.04	Epoxy Resin	25068-38-6	66.6%	1.903%	2.87
				TALC	14807-96-6	26.7%	0.763%	
				Additive organic silicon	14808-60-7	5.6%	0.160%	
				Titanium dioxide	13463-67-7	1.1%	0.031%	
5	Solder bar	Tin	0.030	Tin (Sn)	7440-31-5	99.0%	2.12%	2.14
				Silver(Ag)	7440-22-4	0.5%	0.01%	
				Copper(Cu)	7440-50-8	0.5%	0.01%	
6	Tube	Tube	0.100	Polyethylene	9002-88-4	55.0%	3.93%	7.14
				Magnesium Hydroxide	1309-42-8	38.0%	2.71%	

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				Carbon black	1333-86-4	4.0%	0.29%	
				Phosphorous	7723-14-0	3.0%	0.21%	
7	Ink	Ink	0.010	Cyclic isoprene modified phenol	68441-13-4	18.2%	0.13%	0.71
				Titanium dioxide	13463-67-7	76.4%	0.55%	
				Silica	112945-52-5	5.4%	0.04%	
		Total weight	1.4					

**This Document was updated on:** 2024/1/26

**Important remarks:**

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