


MATERIAL DECLARATION SHEET



Material Number	TLVR1105T Series			
Product Line	Power Inductor			
Compliance Date	2023/04/17			
RoHS Compliant	Yes	MSL	Level 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	Ferrite body	Ferrite Mn-Zn Series	2.2070698	Ferric oxide	1309-37-1	53.000	32.367100	61.07
				Manganese dioxide	1313-13-9	28.000	17.099600	
				Zinc oxide	1314-13-2	19.000	11.603300	
2	Adhesive	EPOXY_ME-5890LC	0.0657748	Epoxy resin	61788-97-4	50.000	0.910000	1.82
				Carbon black	1333-86-4	46.000	0.837200	
				Acrylated Aliphatic Urethane	68987-79-1	4.000	0.072800	
3	Copper/ Coating	Magnet Wire_SFT-AIW	0.171582	Copper	7440-50-8	100.000	4.747700	4.82
			0.002613	Polyamideimide Resin	63428-84-2	100.000	0.072300	
4	Solder	Lead-Free Solder Bar	0.05421	Tin	7440-31-5	99.300	1.489500	1.50
				Copper	7440-50-8	0.700	0.010500	
5	Terminal-Clip	Copper_C1100	0.9392786	Copper	7440-50-8	100.000	25.990000	28.25
		Nickel plating	0.0204191	Nickel	7440-02-0	100.000	0.565000	
		Lead Free Solder	0.0612573	Tin	7440-31-5	100.000	1.695000	
6	Body-Coating	Epoxy resins_7001A (Black)	0.09035	Poly(bisphenol-A-co-epichlorohydrin)	25068-38-6	40.426	1.010650	2.50
				Calcium chloride	10043-52-4	0.021	0.000525	
				Bentonite	1302-78-9	1.596	0.039900	
				Silicon dioxide	14808-60-7	0.723	0.018075	
				Titanium dioxide	13463-67-7	5.319	0.132975	
				Carbon Black	1333-86-4	14.894	0.372350	
				Calcium carbonate	471-34-1	37.021	0.925525	

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7	Label	HIGH TEMPERATURE LABEL MATERIAL	0.0010842	Titanium oxide	1317-80-2	15.133	0.004540	0.03
				Polyimide	26023-21-2	33.293	0.009988	
				Pulp fiber	65996-61-4	51.453	0.015436	
				Silicone oil	63148-62-9	0.121	0.000036	
8	Marking	Thermal Transfer Ribbon	0.0003614	Polyester Resin	25038-59-9	62.000	0.006200	0.01
				Carbon Black	1333-86-4	5.000	0.000500	
				Petroleum resins	64742-16-1	22.000	0.002200	
				Polyethylene Wax	9002-88-4	5.000	0.000500	
				Paraffin wax	8002-74-2	6.000	0.000600	
		Total weight						
							3.614	

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