


# MATERIAL DECLARATION SHEET



Material Number	TLVR1005T Series			
Product Line	Power Inductor			
Compliance Date	2023/04/11			
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	Ferrite body	Ferrite Mn-Zn Series	1.642783	Ferric oxide	1309-37-1	53.000	32.3671	61.07
				Manganese dioxide	1313-13-9	28.000	17.0996	
				Zinc oxide	1314-13-2	19.000	11.6033	
2	Adhesive	EPOXY_ME-5890LC	0.048958	Epoxy resin	61788-97-4	50.000	0.9100	1.82
				Carbon black	1333-86-4	46.000	0.8372	
				Acrylated Aliphatic Urethane	68987-79-1	4.000	0.0728	
3	Copper/ Coating	Magnet Wire_SFT-AIW	0.127713	Copper	7440-50-8	100.000	4.7477	4.82
			0.001945	Polyamideimide Resin	63428-84-2	100.000	0.0723	
4	Solder	Lead-Free Solder Bar	0.04035	Tin	7440-31-5	99.300	1.4895	1.50
				Copper	7440-50-8	0.700	0.0105	
5	Terminal-Clip	Copper_C1100	0.699131	Copper	7440-50-8	100.000	25.9900	28.25
		Nickel plating	0.0151985	Nickel	7440-02-0	100.000	0.5650	
		Lead Free Solder	0.0455955	Tin	7440-31-5	100.000	1.6950	
6	Body-Coating	Epoxy resins_7001A (Black)	0.06725	Poly(bisphenol-A-co-epichlorohydrin)	25068-38-6	40.426	1.0107	2.50
				Calcium chloride	10043-52-4	0.021	0.0005	
				Bentonite	1302-78-9	1.596	0.0399	
				Silicon dioxide	14808-60-7	0.723	0.0181	
				Titanium dioxide	13463-67-7	5.319	0.1330	
				Carbon Black	1333-86-4	14.894	0.3724	
Calcium carbonate	471-34-1	37.021	0.9255					

# MATERIAL DECLARATION SHEET



7	Label	HIGH TEMPERATURE LABEL MATERIAL	0.000807	Titanium oxide	1317-80-2	15.133	0.0045	0.03
				Polyimide	26023-21-2	33.293	0.0100	
				Pulp fiber	65996-61-4	51.453	0.0154	
				Silicone oil	63148-62-9	0.121	0.0000	
8	Marking	Thermal Transfer Ribbon	0.000269	Polyester Resin	25038-59-9	62.000	0.0062	0.01
				Carbon Black	1333-86-4	5.000	0.0005	
				Petroleum resins	64742-16-1	22.000	0.0022	
				Polyethylene Wax	9002-88-4	5.000	0.0005	
				Paraffin wax	8002-74-2	6.000	0.0006	
		Total weight		2.69				

**This Document was updated on: 2023/12/25**

## Important remarks:

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