

# MATERIAL DECLARATION SHEET



Material Number	HCTSM100308BAL			
Product Line	Power Transformer			
Compliance Date	2025-06-05			
RoHS Compliant	YES	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Compositions\Substances	CASRN (if applicable)	Composition Mass %	Composition Mass % of total unit wt.	Material mass of total wt. (%)
1	Core	Mn-Zn ferrite magnet	0.293	Ferric oxide	1309-37-1	72	50.8032	22.0301
				Trimanganese tetraoxide	1317-35-7	22	15.5232	
				Zinc oxide	1314-13-2	6	4.2336	
		Parylene N (coating)	0.006	Poly(1,4-phenylene-1,2-ethanediyl)	25722-33-2	100	0.4511	0.4511
2	Housing	Plastics PDAP (Filled)	0.535	DAP resin	25035-78-3	25	0.0000	40.2256
				Aluminium hydroxide	21645-51-2	45	0.0000	
				Glass fiber	65997-17-3	30	0.0000	
3	Pin	Copper Alloy C5191	0.05975	Copper	7440-50-8	93.45	0.0561	4.4925
				Tin	7440-31-5	6.25	0.0038	
				Phosphorus	7723-14-0	0.2	0.0001	
				Iron	7439-89-6	0.1	0.0001	
		Electrolytic Nickel Plating	0.00005	Nickel	7440-02-0	100	0.0038	0.0038
Electrolytic Tin Plating	0.0002	Tin	7440-31-5	100	0.0150	0.0150		
4	Yellow insulated wire	Copper	0.0164	Copper	7440-50-8	100	1.2331	1.2331
		Lacquer PUR	0.0006	Polyurethane	9017-09-8	100	0.0451	0.0451
		Plastics PFA (Unfilled)	0.0142	Poly(tetrafluoroethylene-co-perfluoro(propylvinyl ether))	26655-00-5	99	1.0570	1.0677

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			Yellow masterbatch	Proprietary	1	0.0107		
Red insulated wire	Copper	0.0164	Copper	7440-50-8	100	1.2331	1.2331	
	Lacquer PUR	0.0006	Polyurethane	9017-09-8	100	0.0451	0.0451	
	Plastics PFA (Unfilled)	0.0142	Poly(tetrafluoroethylene-co-perfluoro(propylvinyl ether))	26655-00-5	99	1.0570	1.0677	
			Red masterbatch	Proprietary	1	0.0107		
Nature enamelled wire	Copper	0.0252	Copper	7440-50-8	100	1.8947	1.8947	
	Lacquer PUR	0.0028	Polyurethane	9009-54-5	100	0.2105	0.2105	
	Lacquer PA	0.0001	Polyamide resin	70024-79-2	100	0.0075	0.0075	
Green enamelled wire	Copper	0.0252	Copper	7440-50-8	100	1.8947	1.8947	
	Lacquer PUR	0.0028	Polyurethane	9009-54-5	99	0.2084	0.2105	
			Green dye	Proprietary	1	0.0021		
	Lacquer PA	0.0001	Polyamide resin	70024-79-2	100	0.0075	0.0075	
6	Cover	Plastics PA10T (Filled)	0.218	Poly(iminocarbonyl-1,4-phenylenecarbonylimino-1,10-decanediyl)	24938-74-7	50	8.1955	16.3910
				Glass fiber	65997-17-3	35	5.7368	
				Aluminum diethylphosphinate	225789-38-8	15	2.4586	
7	Adhesive	Adhesive VMQ	0.078	Silicone Rubber	63394-02-5	55	3.2256	5.8647
				Silicon Dioxide	14808-60-7	44	2.5805	
				Carbon Black	1333-86-4	1	0.0586	
8	Solder	Solder A30C5	0.0193	Tin	7440-31-5	96.5	1.4003	1.45113
				Silver	7440-22-4	3	0.0435	
				Copper	7440-50-8	0.5	0.0073	
9	Solder (SMD Pin)	Solder C7	0.0021	Tin	7440-31-5	99.3	0.1568	0.15789
				Copper	7440-50-8	0.7	0.0011	
		Total weight	1.33					

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This Document was updated on: 2025-06-05

**Important remarks:**

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