

# MATERIAL DECLARATION SHEET



Material Number	HCTSM151207FAL			
Product Line	High Creepage Transformer			
Compliance Date	2025-11-17			
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	0.631	Ferric oxide	1309-37-1	71.2	12.5625	17.6439
				Trimanganese tetraoxide	1317-35-7	24.3	4.2875	
				Zinc oxide	1314-13-2	4.5	0.7940	
		Lacquer EP	0.027	Poly (Bisphenol A-co-epichlorohydrin) glycidyl end-capped	25036-25-3	67.06	0.5063	0.7550
				Calcium carbonate	471-34-1	31.76	0.2398	
				Carbon black	1333-86-4	1.18	0.0089	
2	Housing	Plastics PDAP (Filled)	2.063	DAP resin	25035-78-3	25	14.4213	57.6853
				Aluminum hydroxide	21645-51-2	45	25.9584	
				Glass fiber	65997-17-3	30	17.3056	
3	Pin	Copper Alloy C5191	0.0064	Copper	7440-50-8	93.45	0.1672	0.1790
				Tin	7440-31-5	6.25	0.0112	
				Phosphorus	7723-14-0	0.2	0.0004	
				Iron	7439-89-6	0.1	0.0002	
		Electrolytic Nickel Plating	0.0001	Nickel	7440-02-0	100	0.0028	0.0028
Electrolytic Tin Plating	0.0005	Tin	7440-31-5	100	0.0140	0.0140		
4	Yellow insulated wire	Copper	0.0202	Copper	7440-50-8	100	0.5648	0.5648
		Lacquer PUR	0.0014	Polyurethane	9017-09-8	100	0.0391	0.0391

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		Plastics PFA (Unfilled)	0.0338	Poly(tetrafluoroethylene-co-perfluoro (propyl vinyl ether))	26655-00-5	99	0.9357	0.9451
				Yellow masterbatch	Proprietary	1	0.0095	
	Red insulated wire	Copper	0.0202	Copper	7440-50-8	100	0.5648	0.5648
					Lacquer PUR	0.0014	Polyurethane	9017-09-8
		Plastics PFA (Unfilled)	0.0338	Poly (tetrafluoroethylene-co-perfluoro (propyl vinyl ether))	26655-00-5	99	0.9357	0.9451
					Red masterbatch	Proprietary	1	
	Green enameled wire	Copper	0.0329	Copper	7440-50-8	100	0.9199	0.9199
		Lacquer PUR	0.0065	High temperature polyurethane	1423172-07-9	99.5	0.1808	0.1818
				Green dye	Proprietary	0.5	0.0009	
	Natural enameled wire	Copper	0.0329	Copper	7440-50-8	100	0.9199	0.9199
Lacquer PUR		0.0065	Polyurethane	9017-09-8	100	0.1818	0.1818	
5	Insulation Sheet	Meta-aramid Paper	0.0187	Poly[N,N'-(1,3-phenylene) isophthalamide]	25765-47-3	100	0.5229	0.5229
6	Adhesive	Adhesive VMQ	0.62	Silicone Rubber	63394-02-5	55	9.5350	17.3364
				Silicon Dioxide	14808-60-7	44	7.6280	
				Carbon Black	1333-86-4	1	0.1734	
7	Solder	Solder A30C5	0.02	Tin	7440-31-5	96.5	0.5397	0.5592
				Silver	7440-22-4	3	0.0168	
				Copper	7440-50-8	0.5	0.0028	
		Total weight	3.58					

**This Document was updated on: 2025-11-17**

**Important remarks:**

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