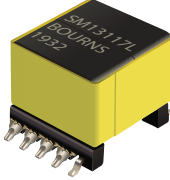


MATERIAL DECLARATION SHEET



Material Number	SM13117EL			
Product Line	TRANSFORMER			
Compliance Date	2018.4.25			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\	CASRN	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
				Substances	if applicable			
1	Core	Ferrite core	4.5	Iron oxide	1309-37-1	70.5	46.1119	65.4070
				Zinc oxide	1314-13-2	6.5	4.2515	
				Manganese tetraoxide	1317-35-7	23	15.0436	
2	Solder wire	Lead free	0.05	Tin	7440-31-5	99.3	0.7217	0.7222
				Copper	7440-50-8	0.7	0.0005	
3	Wire	Enameled wire	1.5	Copper	7440-50-8	≥99.59	21.7151	21.7238
				Polyamide resin	70024-79-2	≤0.4	0.0087	
4	Varnish	J13(a)	0.15	PMA	108-65-6	70	1.5262	2.1802
				PGME	107-98-2	20	0.4360	
				Ethyl acetate	141-78-6	10	0.2180	
5	Tape	Polyester Mylar	0.15	Pet Film	25038-59-9	50	1.0901	2.1802
				Adhesive (Acrylic type)	-----	50	1.0901	

MATERIAL DECLARATION SHEET



6	Bobbin	PM-9630	0.53	Glass Fiber	65997-17-3	48	3.0814	7.7035
				Phenolic Resin	9003-35-4	30	1.5407	
				Modified Phenol Resin	24937-74-4	12	0.7703	
				Kaolin	92704-41-1	4	0.7703	
				Calcium Hydroxide	1305-62-0	1.5	0.3852	
				Phenol	108-95-2	1.5	0.3852	
				Carbon Black	1333-86-4	1.5	0.3852	
				Magnesium Stearate	557-04-0	1.5	0.3852	
		Total weight(g)	6.88					

This Document was updated on: 2018/04/25