


# MATERIAL DECLARATION



Material Number	PM1608 Series (1R0~221)			
Product Line	SMD Power Inductor			
Compliance Date	2024.1.18			
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	Core	Ferrite	0.045	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	53.0%	23.850%	45.00%
				Zinc oxide (ZnO)	1314-13-2	10.0%	4.500%	
				Manganese oxide(MnO)	1344-43-0	37.0%	16.650%	
2.	WIRE	Copper	0.010	Copper(Cu)	7440-50-8	100.0%	9.500%	10.00%
		Resin		Polyurethane Resin	9009-54-5	100.0%	0.500%	
3	Base	Ceramic	0.025	Aluminum oxide	1344-28-1	96.10%	24.025%	25.00%
				Magnesium oxide	1309-48-4	1.600%	0.400%	
				Silicon dioxide	7631-86-9	2.000%	0.500%	
		Calcium oxide	1305-78-8	0.300%	0.075%			
		Plating	0.004	Silver(Ag)	7440-22-4	100.0%	3.240%	4.00%
				Nickel (Ni)	7440-02-0	100.0%	0.600%	
				Gold(Au)	7440-57-5	100.0%	0.160%	
4	Adhesive	Epoxy 1	0.010	Bisphenol A Epoxy Resin	25068-38-6	64.9%	6.489%	10.00%
				Epoxy thinning agent	68609-97-2	5.3%	0.532%	
				carbon black	1333-86-4	5.3%	0.532%	
				Aluminium hydroxide	21645-51-2	24.5%	2.447%	
5	Adhesive	Epoxy 2	0.005	Epoxy Resin	25068-38-6	60.6%	3.032%	5.00%
				Calcium carbonate	471-34-1	21.3%	1.064%	
				Aluminium hydroxide	21645-51-2	16.0%	0.798%	
				Carbon Black	1333-86-4	2.1%	0.106%	
6	Ink	White	0.001	Cyclic isoprene modified phenol	68441-13-4	18.2%	0.182%	1.00%

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				Titanium dioxide	13463-67-7	76.4%	0.764%	
				Silica	112945-52-5	5.4%	0.054%	
		Total weight	0.1					

**This Document was updated on: 2024.1.18**

**Important remarks:**

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