


MATERIAL DECLARATION SHEET



Material Number	1250A-4S series			
Product Line	SPD			
Compliance Date	Oct 2024			
RoHS Compliant	Yes	MSL	1	

NO	Construction Element (subpart)	Homogeneous Materials	Material weight [g]	Homogeneous Material	CASRN	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt • (%)
				Substances	if applicable			
1	Varistor	Ceramic	90.2	Zinc oxide	1314-13-2	99.00%	20.65%	20.86%
				Manganese oxide	1344-43-0	0.25%	0.05%	
				Nickel oxide	1313-99-1	0.25%	0.05%	
				Cobalt oxide	1307-96-6	0.25%	0.05%	
		Bismuth trioxide	1304-76-3	0.25%	0.05%			
		Termination	4	Silver	7440-22-4	100.00%	0.93%	0.93%
2	Plastic shell	PBT	168.3	Polybutylene terephthalate	63440-93-7	80.00%	31.14%	38.92%
				Glass fiber	65997-17-3	20.00%	7.78%	
3	Spring	Spring	1.15	Iron	7439-89-6	98.00%	0.26%	0.27%
				Manganese	7439-96-5	0.65%	0.00%	
				Carbon	7440-44-0	0.65%	0.00%	
				Silicon	7440-21-3	0.20%	0.00%	
				Misc not to declare	---	0.50%	0.00%	
4	Switch	Brass	3.4	Copper	7440-50-8	65.00%	0.51%	0.51%
				Lead	7439-92-1	0.02%	0.00%	
				Zinc	7440-66-6	34.95%	0.27%	0.65%
				Iron	7439-89-6	0.03%	0.00%	

MATERIAL DECLARATION SHEET



		Plastic shell	3.24	PBT resin (C12H12O4) n	26062-94-2	50.00%	0.37%	0.71%	
				Glass fiber.	65997-17-3	30.00%	0.22%		
				Flame retardant (C 18 H 16 Br 4 O 3) n	68928-70-1	12.00%	0.09%		
				Flame retardant Sb2O3	1309-64-4	8.00%	0.06%		
		Phosphorous copper	1.3	Copper	7440-44-8	95.20%	0.29%		
				Tin	7440-31-5	4.80%	0.01%		
		Silver plated	0.16	Silver	7440-22-4	90.00%	0.03%		
				Nickel	7440-02-0	10.00%	0.00%		
		Nylon	0.42	PA66	32131-17-2	50.00%	0.05%		0.10%
				Glass fiber	65997-17-3	30.00%	0.03%		
				Brominated polystyrene	88497-56-7	19.50%	0.02%		
				Antioxidant	23128-74-7	0.50%	0.00%		
		SUS304	2.12	Iron	7439-89-6	73.00%	0.36%		0.49%
				Chromium	7440-47-3	18.00%	0.09%		
Nickel	7440-02-0			9.00%	0.04%				
5	Electrode	Copper part	117.5	Copper	7440-50-8	91.55%	24.88%	27.17%	
				Tin	7440-31-5	8.00%	2.17%		
				Zinc	31396-84-6	0.30%	0.08%		
				Phosphorus	7723-14-0	0.15%	0.04%		
6	Low-temperature alloys	Alloys Solder	2.1	Tin	7440-31-5	42.00%	0.20%	0.49%	
				Bismuth	7440-69-9	58.00%	0.28%		
7	Potting adhesive	Potting adhesive	20.5	Polydimethylsiloxane	68083-19-2	60.00%	2.84%	4.74%	
				Polymethylhydrosiloxane	63148-57-2	5.00%	0.24%		
				Alumina	1344-28-1	24.00%	1.14%		
				Aluminum hydroxide	21645-51-2	10.00%	0.47%		
				Platinum	68478-92-2	0.20%	0.01%		

MATERIAL DECLARATION SHEET



				Carbon black	1333-86-4	0.80%	0.04%	
8	Screw	Carbon steel	17.8	Carbon	7440-44-0	0.19%	0.01%	4.12%
				Manganese	7439-96-5	0.78%	0.03%	
				Phosphorus	7723-14-0	0.02%	0.00%	
				Sulfur	7704-34-9	0.01%	0.00%	
				Silicon	7440-21-3	0.04%	0.00%	
				Aluminum	7429-90-5	0.04%	0.00%	
				Iron	7439-89-6	98.91%	4.07%	
9	Ink Printing	Ink	0.2	Epoxy Resins	61788-97-4	60.00%	0.03%	0.05%
				Titanium dioxide powder, color powder	1333-86-4	35.00%	0.02%	
				Other additives	67763-03-5	5.00%	0.00%	
Total			432.39					

This Document was updated: Oct 2024

Important remarks:

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