


MATERIAL DECLARATION SHEET



Material Number	1430-series			
Product Line	SPD			
Compliance Date	March 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	51.1	Zinc oxide	1314-13-2	99.000%	30.512%	30.820%
				Manganese oxide	1344-43-0	0.250%	0.077%	
				Nickel oxide	1313-99-1	0.250%	0.077%	
				Cobalt oxide	1307-96-6	0.250%	0.077%	
		Bismuth trioxide	1304-76-3	0.250%	0.077%			
		Termination	2	Silver	7440-22-4	100.000%	1.206%	1.206%
2	Plastic shell	PBT	76.8	PBT resin	26062-94-2	55.000%	25.476%	46.321%
				Halogen flame retardant	68928-70-1	13.000%	6.022%	
				Antimony trioxide	1309-64-4	5.000%	2.316%	
				Glass fiber	65997-17-3	20.000%	9.264%	
				Misc not to declare	---	7.000%	3.242%	
3	Spring	Spring	0.3	Iron	7439-89-6	98.000%	0.177%	0.181%
				Manganese	7439-96-5	0.650%	0.001%	
				Carbon	7440-44-0	0.650%	0.001%	
				Silicon	7440-21-3	0.200%	0.000%	
				Misc not to declare	---	0.500%	0.001%	
4	Switch	Brass	0.8	Copper	7440-50-8	65.000%	0.314%	0.483%

MATERIAL DECLARATION SHEET



				Lead	7439-92-1	0.020%	0.000%			
				Zinc	7440-66-6	34.950%	0.169%			
				Iron	7439-89-6	0.030%	0.000%			
		Plastic shell	0.06			PBT resin (C12H12O4) n	26062-94-2	50.000%	0.018%	0.036%
						Glass fiber.	65997-17-3	30.000%	0.011%	
						Flame retardant (C 18 H 16 Br 4 O 3) n	68928-70-1	12.000%	0.004%	
						Flame retardant Sb2O3	1309-64-4	8.000%	0.003%	
		Phosphorous copper	0.1			Copper	7440-44-8	88.000%	0.053%	0.060%
						Tin	7440-31-5	12.000%	0.007%	
				Silver plated	0.036	Silver	7440-22-4	100.000%	0.022%	0.022%
		Nickel underlayer plated	0.004	Nickel	7440-02-0	100.000%	0.002%	0.002%		
5	Copper Electrode	Copper part	9.2	Copper	7440-50-8	91.550%	5.080%	5.549%		
				Tin	7440-31-5	8.000%	0.444%			
				Zinc	31396-84-6	0.300%	0.017%			
				Phosphorus	7723-14-0	0.150%	0.008%			
6	Low-temperature alloys	Alloys Solder	1	Tin	7440-31-5	42.000%	0.253%	0.603%		
				Bismuth	7440-69-9	58.000%	0.350%			
7	Potting adhesive	Potting adhesive	10	Polydimethylsiloxane	68083-19-2	60.000%	3.619%	6.031%		
				Polymethylhydrosiloxane	63148-57-2	5.000%	0.302%			
				Alumina	1344-28-1	24.000%	1.448%			

MATERIAL DECLARATION SHEET



				Aluminum hydroxide	21645-51-2	10.000%	0.603%	
				Platinum	68478-92-2	0.200%	0.012%	
				Carbon black	1333-86-4	0.800%	0.048%	
8	Screw	SUS304 Part	14.4	Carbon	7440-44-0	0.070%	0.006%	8.685%
				Manganese	7439-96-5	1.200%	0.104%	
				Silicon	7440-21-3	0.700%	0.061%	
				Phosphorus	7723-14-0	0.020%	0.002%	
				Sulfur	7704-34-9	0.010%	0.001%	
				Nickel	7440-02-0	11.000%	0.955%	
				Chromium	7440-47-3	18.000%	1.563%	
				Iron	7439-89-6	69.000%	5.993%	
		Total	165.8					

This Document was updated on: March 2024

Important remarks:

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