


# MATERIAL DECLARATION SHEET



Material Number	1270-series			
Product Line	SPD			
Compliance Date	Mar 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%	30.549%	30.857%
				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%	1.208%	1.208%
2	Plastic shell	PBT	67.3	PBT resin	26062-94-2	55.000%	22.352%	40.640%
				Halogen flame retardant	68928-70-1	13.000%	5.283%	
				Antimony trioxide	1309-64-4	5.000%	2.032%	
				Glass fiber	65997-17-3	20.000%	8.128%	
				Misc not to declare	---	7.000%	2.845%	
3	Spring	Spring	0.3	Iron	7439-89-6	98.000%	0.178%	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%
				Lead	7439-92-1	0.020%	0.000%	

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5	Copper Electrode	Plastic shell	0.06	Zinc	7440-66-6	34.950%	0.169%	0.036%
				Iron	7439-89-6	0.030%	0.000%	
				PBT resin (C <sub>12</sub> H <sub>12</sub> O <sub>4</sub> ) n	26062-94-2	50.000%	0.018%	
				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 Sb <sub>2</sub> O <sub>3</sub>	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%
		Copper part	9.2	Copper	7440-50-8	91.550%	5.086%	5.556%
				Tin	7440-31-5	8.000%	0.444%	
				Zinc	31396-84-6	0.300%	0.017%	
				Phosphorus	7723-14-0	0.150%	0.008%	
Alloys Solder	1	Tin	7440-31-5	42.000%	0.254%	0.604%		
		Bismuth	7440-69-9	58.000%	0.350%			
Potting adhesive	10	Polydimethylsiloxane	68083-19-2	60.000%	3.623%	6.039%		
		Polymethylhydrosiloxane	63148-57-2	5.000%	0.302%			
		Alumina	1344-28-1	24.000%	1.449%			
		Aluminum hydroxide	21645-51-2	10.000%	0.604%			

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				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%	8.696%
				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%	0.957%	
				Chromium	7440-47-3	18.000%	1.565%	
				Iron	7439-89-6	69.000%	6.000%	
9	GDT	metallized porcelain tube	1.55	Alumina	1344-28-1	100.000%	0.936%	0.936%
		Iron Nickel Alloy	1.04	Iron	7439-89-6	58.000%	0.364%	0.627%
				Nickel	7440-02-0	42.000%	0.263%	
		Tungsten	5.52	Tungsten	7440-33-7	60.000%	1.998%	3.331%
				Copper	7440-50-8	40.000%	1.332%	
		AgCu28	0.21	Silver	7440-22-4	72.000%	0.091%	0.126%
				Copper	7440-50-8	28.000%	0.035%	
		Tin layer	0.99	Tin	7440-31-5	80.000%	0.477%	0.596%
				Copper	7440-50-8	20.000%	0.119%	
				<b>Total</b>	<b>165.6</b>			

This Document was updated on: **Mar 2024**

### Important remarks:

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