


MATERIAL DECLARATION SHEET



Material Number	2510 series			
Product Line	SPD			
Compliance Date	June 2023			
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	Circuit board	Continuous Filament Fiber Glass	2.52	Continuous Filament Fiber Glass	65997-17-3	100.00%	3.45%	8.61%
		Copper	1.26	Copper	7440-50-8	100.00%	1.72%	
		Epoxy resin	2.52	Epoxy resin	26265-08-7	100.00%	3.45%	
2	GDT	Metallized porcelain tube	3.7875	Alumina	1302-74-5	99.94%	5.18%	5.20%
				Silicon Dioxide	14464-46-1	0.02%	0.00%	
				Calcium oxide	1305-78-8	0.04%	0.00%	
				Molybdenum	7439-98-7	60%	0.00%	
		Tin layer	0.0034	Manganese	7439-96-5	20%	0.00%	
				Nickel	7440-02-0	20%	0.00%	
		AgCu28	0.0065	Silver	7440-22-4	72.00%	0.01%	
				Copper	7440-50-8	28.00%	0.00%	
		Iron Nickel Alloy	0.0027	Iron	7439-89-6	58.00%	0.00%	
Nickle	7440-02-0			42.00%	0.00%			
3	Plastic shell	PBT	26.5	Polybutylene terephthalate	26062-94-2	60.00%	21.74%	36.24%
				Halogen flame retardant	68928-70-1	12.00%	4.35%	
				Antimony trioxide	1309-64-4	5.00%	1.81%	
				Calcium sodium phosphate	65997-17-3	18.00%	6.52%	
				Others	Misc Not to declare	5.00%	1.81%	
4	Lead-free solder wire	Sn	5	Tin	7440-31-5	99.30%	6.79%	6.84%
				Copper	7440-50-8	0.70%	0.05%	
5	Copper strip	Copper strip	26	Copper	7440-50-8	61.17%	21.75%	35.56%
				Zinc	7440-66-6	38.56%	13.71%	

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				Phosphorus	7723-14-0	0.00%	0.00%				
				Lead	7439-92-1	0.01%	0.00%				
				Iron	7439-89-6	0.06%	0.02%				
				Other	Misc Not to declare	0.21%	0.07%				
6	Resistance	Ceramic rod	0.43	Aluminum Oxide	1344-28-1	72.84%	0.43%	1.01%			
				Silicon Dioxide	14464-46-1	19.96%	0.12%				
				Calcium oxide	1305-78-8	1.55%	0.01%				
				Barium oxide	1304-28-5	5.63%	0.03%				
				Titanium Dioxide	13463-67-7	0.02%	0.00%				
		Around the wire	0.03	Nickle	7440-02-0	41.00%	0.02%				
				Copper	7440-50-8	57.00%	0.02%				
				Manganese	7439-96-5	2.00%	0.00%				
		Cap	0.04	Iron	7439-89-6	99.90%	0.05%				
				Copper	7440-50-8	0.08%	0.00%				
				Tin	7440-31-5	0.02%	0.00%				
		lead pin	0.152	Copper	7440-50-8	96.00%	0.20%				
				Tin	7440-31-5	4.00%	0.01%				
		Resistance paint	0.07	Silicon Dioxide	60676-86-0	70.00%	0.07%				
				Epoxy resine	25085-99-8	15.00%	0.01%				
				Black Ferric Oxide	1317-61-9	5.00%	0.00%				
				iron hydroxide oxide	20344-49-4	5.00%	0.00%				
Titanium dioxide	13463-67-7			5.00%	0.00%						
Color ring	0.016	Diglycidyl bisphenol a resin	25085-99-8	50.00%	0.01%						
		Carbon	1333-86-4	20.00%	0.00%						
		Amino rosin	9003-8-1	15.00%	0.00%						
		Isophorone	78-59-1	15.00%	0.00%						
7	Varistor	Ceramic	1.8819	Oxozinc	8051-3-4	99.00%	2.55%	3.71%			
				Manganese carbonate	598-62-9	0.25%	0.01%				
				COBALT(III) OXIDE	1308-04-9	0.25%	0.01%				
				Dibismuth trioxide	1304-76-3	0.25%	0.01%				
				Trinickel disulphide	12035-72-2	0.15%	0.00%				
				Antimony trioxide	1309-64-4	0.10%	0.00%				
		Electrode	0.3458	Iron	7439-89-6	91.70%	0.43%				
				Copper	7440-50-8	8.00%	0.04%				
				Aluminum	7429-90-5	0.30%	0.00%				
		Envelope	0.455	Epoxy resin	25036-25-3	91.55%	0.57%				
				Silicon	60676-86-0	8.45%	0.05%				
		Termination	0.0336	Silver	7440-22-4	100.00%	0.05%				
		8	Diode		0.1856	Copper	7440-50-8		99.81%	0.25%	2.84%

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	Lead Frame		Iron	7439-89-6	0.15%	0.00%
			Phosphorus	7723-14-0	0.04%	0.00%
	Chip	0.13	Silicon	7440-21-3	85.72%	0.15%
			Nickle	7440-02-0	0.68%	0.00%
			Lead	7439-92-1	7.39%	0.01%
			Silicon Dioxide	7631-86-9	4.51%	0.01%
			Aluminum Oxide	1344-28-1	1.70%	0.00%
	Solder	0.14	Lead	7439-92-1	92.06%	0.18%
			Tin	7440-31-5	5.26%	0.01%
			Silver	7440-22-4	2.68%	0.01%
	Molding compound	1.6	Silicon Dioxide	7631-86-9	34.50%	0.75%
			Quartz	14808-60-7	54.20%	1.19%
			Firebrake(R) ZB	138265-88-0	4.00%	0.09%
			Phenol formaldehyde resin	9003-35-4	7.20%	0.16%
	Plating	0.023	Carbon Black	1333-86-4	0.10%	0.00%
			Tin	7440-31-5	100.00%	0.03%
	Total	73.133				

This Document was updated: June 2023

Important remarks:

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