

MATERIAL DECLARATION SHEET



Material Number	PSD227x Series			
Product Line	Fixed Resistors			
Compliance Date	2025/10/2			
RoHS Compliant	Yes	MSL	1	

Reference Part number: PSD2272

No.	Construction Element(subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Lead Plating	Nickel Plating	10	Nickel	7440-02-0	100	0.037	0.037
2	Leads	Copper	1200	Copper	7440-50-8	100	4.402	4.402
3	Inside Soldering	Solder	812.26	Tin	7440-31-5	90.91	2.980	3.278
			67.69	Copper	7440-50-8	7.58	0.248	
			13.54	Silver	7440-22-4	1.52	0.050	
4	Heatsink	Copper Plate	16670	Copper	7440-50-8	100	61.150	61.15
5	Heatsink Plating	Nickel Plating	100	Nickel	7440-02-0	100	0.367	0.367
6	Substrate	Ceramic	930	Alumina	1344-28-1	99.58	3.397	3.412
				Silicon Dioxide	7631-86-9	0.42	0.014	
7	Coating	Epoxy	0.3	Brominated Epoxy Oligomer	68928-70-1	100	0.001	0.001

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8	Resistor Material	Thick film	103.5	Silver	7440-22-4	25.12	0.095	0.380
				Platinum	7440-06-4	3.86	0.015	
				Lead Monoxid	1317-36-8	14.98	0.057	
				Silicon Dioxide	7631-86-9	21.74	0.083	
				Ruthenium Oxide	12036-10-1	10.14	0.039	
				Ruthenium Dioxide	12036-10-1	9.66	0.037	
				Lead Ruthenium Oxid	37194-88-0	14.49	0.055	
9	Cover film	Glass layer	0.41	Lead bisilicate	65997-18-4	100	0.002	0.002
10	Body filling	Structalit	1212.5	Epoxy	68928-70-1	100	4.448	4.448
11	Body	Fortron 1140L4	4630.5	Polyphenylensulfid	26125-40-6	100	16.986	16.986
12	Solder resist	Resist film	100	Epoxy	68928-70-1	100	0.367	0.367
13	Cover	Cover film	10	Silicone	7440-21-3	100	0.037	0.037
14	Nuts	Stainless Steel	1400	Chromium	7440-47-3	17	5.136	5.136
				Iron	7439-89-6	68		
				Nickel	7440-02-0	12		
				Molybdenum	7439-98-7	3		
		Total weight	27260.70					

This Document was updated on: 2025/10/27

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Resistive material weight will be different based on the resistance value.
3. The weight of the core and coating material will differ based on the size.