

MATERIAL DECLARATION SHEET



Material Number	SF-2		
Product Line	Fixed Resistor		
Compliance Date	10/10/2024		
RoHS Compliant		MSL	1



No.	Construction Element (Subpart)	Homogeneous Material	Material Weight (g)	Homogeneous Material Substance	CASRN	Material Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic Core	Ceramic	0.0450	Silicon Dioxide (SiO ₂)	7631-86-9	10.9600%	1.7234%	15.7244%
				Sodium (Na)	7440-23-5	0.0400%	0.0063%	
				Iron(III) Oxide (Fe ₂ O ₃)	1309-37-1	0.4000%	0.0629%	
				Potassium Dioxide (KO ₂)	12030-88-5	0.2000%	0.0314%	
				Magnesium (Mg)	7439-95-4	0.4000%	0.0629%	
				Calcium (Ca)	7440-70-2	1.5000%	0.2359%	
				Aluminum (Al)	7429-90-5	85.0000%	13.3657%	
2	Ceramic Cap	Steel	0.0280	Iron (Fe)	7439-89-6	4.3800%	0.4285%	9.7841%
				Copper (Cu)	7440-50-8	92.7000%	9.0698%	
				Tin (Sn)	7440-31-5	2.9200%	0.2857%	
3	Terminal	Copper C10100	0.1299	Copper (Cu)	7440-50-8	99.9954%	45.3889%	45.3910%
		Tin Plating	0.0001	Trace not to declare		0.0046%	0.0021%	
4	Resistive Element	Nickel Chromium Alloy	0.0001	Tin (Sn)	7440-31-5	100.0000%	0.0349%	0.0489%
				Nickel (Ni)	7440-02-0	80.0000%	0.0391%	
5	Coating	PC-25N	0.0150	Chromium (Cr)	7440-47-3	20.0000%	0.0098%	5.2415%
				PC-25N	9003-35-4	100.0000%	5.2415%	
6	Compound Mold	Epoxy Mold	0.0680	Epoxy Resin	25068-38-6	17.0000%	4.0418%	23.7752%
				Phenolic Resin	9003-35-4	8.0000%	1.9020%	
				Mineral Fillers	60676-86-0	63.0000%	14.9784%	
				Flame Retardants	Trade Secret	8.0000%	1.9020%	
				Pigments	Not to Declare	4.0000%	0.9510%	
Total Weight			0.2862					

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This Document was updated on: 10/16/2024

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.