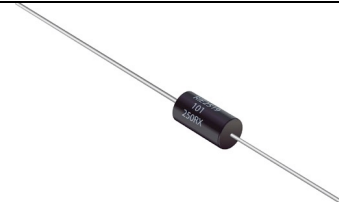


MATERIAL DECLARATION SHEET



Material Number	SM2, SM3, SM4, SM13, SM5, SM6, 139A, SM15, SM12, 100, SM7, 101, 102, 120, 121, 129, 106, 107, 108			
Product Line	Fixed Resistor			
Compliance Date	8/19/2025			
RoHS Compliant		MSL	1	

Reference Model: SM-15

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	Acrylic Conformal Coating	Conformal Coating	0.0079	Acrylic polymer	37325-11-4	99.00%	0.5693%	0.5751%
				Miscellaneous	N/A	1.00%	0.0058%	
2	Compound Mold	Epoxy Mold	0.0454	Epoxy Resin	25068-38-6	17.00%	0.5618%	3.3049%
				Phenolic Resin	9003-35-4	8.00%	0.2644%	
				Mineral Fillers	60676-86-0	63.00%	2.0821%	
				Flame Retardants	Trade Secret	8.00%	0.2644%	
				Pigments	Not to Declare	4.00%	0.1322%	
3	Terminal	Copper C10200	0.16	Copper	7440-50-8	99.98%	11.6450%	11.6474%
				Oxygen	7782-44-7	0.02%	0.0023%	
		Tin Plating	0.01	Tin	7440-31-5	100.00%	0.7280%	0.7280%
4	Resistive Element	EVNOM	0.0618	Nickel	7440-02-0	74.40%	3.3471%	4.4988%
				Chromium	7440-47-3	20.00%	0.8998%	
				Aluminum	7429-90-5	3.50%	0.1575%	
				Silicon	7440-21-3	1.00%	0.0450%	
				Iron	7439-89-6	0.50%	0.0225%	
				Manganese	7439-96-5	0.50%	0.0225%	
				Copper	7440-50-8	0.10%	0.0045%	
5	Compound Mold	Epoxy Mold	1.0055	Epoxy Resin	25068-38-6	17.00%	12.4434%	73.1965%
				Phenolic Resin	9039-25-2	11.00%	8.0516%	
				Silica, Amorphous Fumed	112945-52-5	60.00%	43.9179%	
				GF-Fibre	65997-17-3	10.00%	7.3196%	

MATERIAL DECLARATION SHEET



				Pigments	Not to Declare	0.50%	0.3660%	
				Miscellaneous	N/A	1.50%	1.0979%	
6	RTV Compound	RTV	0.0831	Silicone rubber	63394-02-5	70.00%	4.2345%	6.0494%
				Calcium-carbonate	471-34-1	27.30%	1.6515%	
				Ethyl silicate	11099-06-2	2.00%	0.1210%	
				Miscellaneous	N/A	0.70%	0.0423%	
		Total Weight	1.3737					

Reference Model: 101

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	Acrylic Conformal Coating	Conformal Coating	0.0079	Acrylic polymer	37325-11-4	99.00%	0.4048%	0.4088%
				Miscellaneous	N/A	1.00%	0.0041%	
2	Compound Mold	Epoxy Mold	0.5670	Epoxy Resin	25068-38-6	17.00%	4.9884%	29.3433%
				Phenolic Resin	9003-35-4	8.00%	2.3475%	
				Mineral Fillers	60676-86-0	63.00%	18.4863%	
				Flame Retardants	Trade Secret	8.00%	2.3475%	
				Pigments	Not to Declare	4.00%	1.1737%	
3	Terminal	Copper C10200	0.25	Copper	7440-50-8	99.98%	12.9354%	12.9379%
				Oxygen	7782-44-7	0.02%	0.0026%	
		Tin Plating	0.01	Tin	7440-31-5	100.00%	0.5175%	0.5175%
4	Resistive Element	EVNOM	0.1483	Nickel	7440-02-0	74.40%	5.7100%	7.6748%
				Chromium	7440-47-3	20.00%	1.5350%	
				Aluminum	7429-90-5	3.50%	0.2686%	
				Silicon	7440-21-3	1.00%	0.0767%	
				Iron	7439-89-6	0.50%	0.0384%	
				Manganese	7439-96-5	0.50%	0.0384%	
				Copper	7440-50-8	0.10%	0.0077%	
5	Shell Molding	Epoxy Mold	0.8660	Epoxy Resin	25068-38-6	17.00%	7.6189%	44.8171%
				Phenolic Resin	9039-25-2	11.00%	4.9299%	
				Silica, Amorphous Fumed	112945-52-5	60.00%	26.8902%	

MATERIAL DECLARATION



				GF-Fibre	65997-17-3	10.00%	4.4817%	
				Pigments	Not to Declare	0.50%	0.2241%	
				Miscellaneous	N/A	1.50%	0.6723%	
6	RTV Compound	RTV	0.0831	Silicone rubber	63394-02-5	70.00%	3.0104%	4.3006%
				Calcium-carbonate	471-34-1	27.30%	1.1741%	
				Ethyl silicate	11099-06-2	2.00%	0.0860%	
				Miscellaneous	N/A	0.70%	0.0301%	
		Total Weight	1.9323					

This Document was updated on: 10/2/2025

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.