

MATERIAL DECLARATION SHEET



Material Number	FWP218 Series			
Product Line	Fixed Resistors			
Compliance Date	2025/7/22			
RoHS Compliant	Yes	MSL	1	

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	Tin Plating	5.28	Tin	7440-31-5	90.9	0.111	0.122
				Copper	7440-50-8	7.6	0.009	
				Silver	7440-22-4	1.5	0.002	
2	Leads	Copper	680	Copper	7440-50-8	100	19.973	19.973
3	Inside Soldering	Tin Plating	10.56	Tin	7440-31-5	90.9	0.282	0.31
				Copper	7440-50-8	7.6	0.023	
				Silver	7440-22-4	1.5	0.005	
4	Heatsink	Aluminum Anodized	700	Aluminum	7429-90-5	100	20.561	20.561
5	Foilbond	Foilbond	15	Dimethylacetamide	127-19-5	100	0.441	0.441
6	Resistor Material	Manganin ^{R1}	109.74	Copper	7440-50-8	82.96	2.674	3.223

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				Nickel	7440-02-0	3	0.097	
				Manganese	7439-96-5	14.04	0.452	
7	Cover	Silicone Based	4	Silicon	7440-21-3	100	0.117	0.117
8	Mold	Fortron 1140L4	1880	Polyphenylensulfid	26125-40-6	100	55.22	55.22
		Total weight	3404.58					

This Document was updated on: 2025/7/22

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.