

MATERIAL DECLARATION



Material Number	RSN			
Product Line	Fixed Resistor			
Compliance Date	2/21/2024			
RoHS Compliant	Yes	MSL	1	

RSN-1-100								
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	Resistive Material Manganese, 0.036"DIA Wire	Manganin Alloy	0.7400	Copper	7440-50-8	86.00%	0.3620%	0.4209%
				Nickel	7440-02-0	4.00%	0.0168%	
				Manganese	7439-96-5	10.00%	0.0421%	
2	Base Terminal Block Left/Right	Brass Alloy C360	93.3800	Copper	7440-50-8	58.60%	31.1249%	53.1142%
				Zinc	7440-66-6	36.80%	19.5460%	
				Lead	7439-92-1	3.40%	1.8059%	
				Tin	7440-31-5	0.60%	0.3187%	
				Iron	7439-89-6	0.60%	0.3187%	
3	Solder, SAC305 0.031D	Hi Temperature Solder, PB Free	2.4700	Copper	7440-50-8	0.50%	0.0070%	1.4049%
				Tin	7440-31-5	96.50%	1.3558%	
				Silver	7440-22-4	3.00%	0.0421%	
4	Screws Pan Head, 8-32 x 3/8"	Brass Alloy C260	3.3600	Copper	7440-50-8	70.00%	1.3378%	1.9112%
				Zinc	7440-66-6	30.00%	0.5733%	
5	Screws Pan Head, 10-32 x 3/8"	Brass Alloy C260	5.0800	Copper	7440-50-8	70.00%	2.0226%	2.8895%
				Zinc	7440-66-6	30.00%	0.8668%	
6	Washer, #8 Flat	Brass Alloy C260	0.6400	Copper	7440-50-8	70.00%	0.2548%	0.3640%
				Zinc	7440-66-6	30.00%	0.1092%	
7	Lock Washer, #8 Split	Silicon Bronze Alloy 651	0.4500	Copper	7440-50-8	97.00%	0.2483%	0.2560%
				Manganese	7439-96-5	1.00%	0.0026%	

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				Silicon	7440-21-3	2.00%	0.0051%	
8	Washer, #10 Flat	Brass Alloy C260	1.4500	Copper	7440-50-8	70.00%	0.5773%	0.8248%
				Zinc	7440-66-6	30.00%	0.2474%	
9	Washer, 3/8" Flat	Brass Alloy C260	9.0700	Copper	7440-50-8	70.00%	3.6113%	5.1590%
				Zinc	7440-66-6	30.00%	1.5477%	
10	Shunt Base, Plastic Molded	Phenolic	29.7000	Polycarbonate	25037-45-0	33.00%	5.5748%	16.8932%
				Polycarbonate	24936-68-3	33.00%	5.5748%	
				Fiber Glass	65997-17-3	30.00%	5.0680%	
				Silicone Element	63148-62-9	2.00%	0.3379%	
				Carbon Black	1333-86-4	2.00%	0.3379%	
11	Hex Cap, 3/8-16 x 5/8"	Brass Alloy C270	3.2700	Copper	7440-50-8	65.00%	1.2090%	1.8600%
				Zinc	7440-66-6	35.00%	0.6510%	
12	Epoxy Resin w/ Catalyst	50-3150RFRBK	26.2000	Aluminum Hydroxide	21645-51-2	57.25%	8.5317%	14.9025%
				Phenol	25068-38-6	31.25%	4.6570%	
				Diethylmethylbenzenediamine	68479-98-1	6.00%	0.8941%	
				Carbon Black	1333-86-4	0.50%	0.0745%	
				Confidential Substances	Trade secret	5.00%	0.7451%	
		Total Weight	175.8100					

RSN-100-100								
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	Resistive Material Manganese, 0.032 X 2.00" 6FT	Manganin Alloy	34.2500	Copper	7440-50-8	86.00%	10.4573%	12.1596%
				Nickel	7440-02-0	4.00%	0.4864%	
				Manganese	7439-96-5	10.00%	1.2160%	
2	Base Terminal Block Left/Right	Brass Alloy 360	186.7500	Copper	7440-50-8	58.60%	38.8524%	66.3010%
				Zinc	7440-66-6	36.80%	24.3988%	

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				Lead	7439-92-1	3.40%	2.2542%	
				Tin	7440-31-5	0.60%	0.3978%	
				Iron	7439-89-6	0.60%	0.3978%	
3	Solder, SAC305 0.031D	Hi Temperature Solder, PB Free	2.4700	Copper	7440-50-8	0.50%	0.0044%	0.8769%
				Tin	7440-31-5	96.50%	0.8462%	
				Silver	7440-22-4	3.00%	0.0263%	
4	Screws Pan Head, 8-32 x 3/8"	Brass Alloy C260	3.3600	Copper	7440-50-8	70.00%	0.8350%	1.1929%
				Zinc	7440-66-6	30.00%	0.3579%	
5	Screws Pan Head, 10-32 x 3/8"	Brass Alloy C260	5.0800	Copper	7440-50-8	70.00%	1.2625%	1.8035%
				Zinc	7440-66-6	30.00%	0.5411%	
6	Washer, #8 Flat	Brass Alloy C260	0.6400	Copper	7440-50-8	70.00%	0.1591%	0.2272%
				Zinc	7440-66-6	30.00%	0.0682%	
7	Lock Washer, #8 Split	Silicon Bronze Alloy 651	0.4500	Copper	7440-50-8	97.00%	0.1550%	0.1598%
				Manganese	7439-96-5	1.00%	0.0016%	
				Silicon	7440-21-3	2.00%	0.0032%	
8	Washer, #10 Flat	Brass Alloy C260	1.4500	Copper	7440-50-8	70.00%	0.3604%	0.5148%
				Zinc	7440-66-6	30.00%	0.1544%	
9	Washer, 3/8" Flat	Brass Alloy C260	9.0700	Copper	7440-50-8	70.00%	2.2541%	3.2201%
				Zinc	7440-66-6	30.00%	0.9660%	
10	Shunt Base, Plastic Molded	Phenolic	29.7000	Polycarbonate	25037-45-0	33.00%	3.4796%	10.5443%
				Polycarbonate	24936-68-3	33.00%	3.4796%	
				Fiber Glass	65997-17-3	30.00%	3.1633%	
				Silicone Element	63148-62-9	2.00%	0.2109%	
				Carbon Black	1333-86-4	2.00%	0.2109%	
11	Hex Cap, 3/8-16 x 5/8"	Brass Alloy C270	3.2700	Copper	7440-50-8	65.00%	0.7546%	1.1609%
				Zinc	7440-66-6	35.00%	0.4063%	
12	Epoxy Resin w/ Catalyst	50-3150RFRBK	5.1800	Aluminum Hydroxide	21645-51-2	57.25%	1.0528%	1.8390%
				Phenol	25068-38-6	31.25%	0.5747%	
				Diethylmethylbenzenediamine	68479-98-1	6.00%	0.1103%	
				Carbon Black	1333-86-4	0.50%	0.0092%	

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				Confidential Substances	Trade secret	5.00%	0.0920%	
		Total Weight	281.6700					

This Document was updated on: 12/8/2025

Important remarks:

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