

MATERIAL DECLARATION



Material Number	RSA			
Product Line	Fixed Resistor			
Compliance Date	4/22/2024			
RoHS Compliant	Yes	MSL	1	

RSA-5-50								
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, 0.0253 X 0.80" 6FT	Manganin Alloy	0.1360	Copper	7440-50-8	86.00%	0.1314%	0.1528%
				Nickel	7440-02-0	4.00%	0.0061%	
				Manganese	7439-96-5	10.00%	0.0153%	
2	Base Terminal Block Left	Brass Alloy C360	19.5041	Copper	7440-50-8	58.60%	12.8377%	21.9073%
				Zinc	7440-66-6	36.80%	8.0619%	
				Lead	7439-92-1	3.40%	0.7448%	
				Tin	7440-31-5	0.60%	0.1314%	
				Iron	7439-89-6	0.60%	0.1314%	
3	Base Terminal Block Right	Brass Alloy C360	19.5041	Copper	7440-50-8	58.60%	12.8377%	21.9073%
				Zinc	7440-66-6	36.80%	8.0619%	
				Lead	7439-92-1	3.40%	0.7448%	
				Tin	7440-31-5	0.60%	0.1314%	
				Iron	7439-89-6	0.60%	0.1314%	
4	Lead-Free Solder, Hi Temperature	Lead-Free Solder, SAC305 0.031D	3.1150	Copper	7440-50-8	0.50%	0.0175%	3.4988%
				Tin	7440-31-5	96.50%	3.3764%	
				Silver	7440-22-4	3.00%	0.1050%	
5	Screws Pan Head, 8-32 x 3/8"	Brass Alloy C260	3.3570	Copper	7440-50-8	70.00%	2.6394%	3.7706%
				Zinc	7440-66-6	30.00%	1.1312%	

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6	Screws Flat Head, 8-32 x 3/8"	Brass Alloy C260	2.3590	Copper	7440-50-8	70.00%	1.8548%	2.6497%
				Zinc	7440-66-6	30.00%	0.7949%	
7	Washer, #8 Flat	Brass Alloy C260	0.6350	Copper	7440-50-8	70.00%	0.4993%	0.7133%
				Zinc	7440-66-6	30.00%	0.2140%	
8	Lock Washer, #8 Split	Silicon Bronze C651	0.4540	Copper	7440-50-8	97.67%	0.4981%	0.5099%
				Manganese	7439-96-5	0.41%	0.0021%	
				Zinc	7440-66-6	0.20%	0.0010%	
				Silicon	7440-21-3	1.72%	0.0088%	
9	Shunt Base, Plastic Molded	Phenolic	24.0400	Polycarbonate	25037-45-0	33.00%	8.9107%	27.0021%
				Polycarbonate	24936-68-3	33.00%	8.9107%	
				Fiber Glass	65997-17-3	30.00%	8.1006%	
				Silicone Element	63148-62-9	2.00%	0.5400%	
				Carbon Black	1333-86-4	2.00%	0.5400%	
10	Lock Washer, 1/4 Split	Silicon Bronze C651	4.3540	Copper	7440-50-8	97.84%	4.7849%	4.8905%
				Manganese	7439-96-5	0.45%	0.0220%	
				Iron	7439-89-6	0.01%	0.0005%	
				Silicon	7440-21-3	1.70%	0.0831%	
11	Hex Nut, 1/4-28 Flat	Brass Alloy C270	10.7050	Copper	7440-50-8	65.00%	7.8156%	12.0240%
				Zinc	7440-66-6	35.00%	4.2084%	
12	Epoxy Resin w/ Catalyst	50-3150RFRBK	0.8668	Aluminum Hydroxide	21645-51-2	57.25%	0.5574%	0.9736%
				Phenol	25068-38-6	31.25%	0.3043%	
				Diethylmethylbenzenediamine	68479-98-1	6.00%	0.0584%	
				Carbon Black	1333-86-4	0.50%	0.0049%	
				Confidential Substances	Trade secret	5.00%	0.0487%	
		Total Weight	89.0300					

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.