

MATERIAL DECLARATION SHEET



Material Number	SDxxABB			
Product Line	Thermal Cut-Off			
Compliance Date	December 6, 2022			
RoHS Compliant	Y	MSL	1	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Materials Mass (%) Median †	Material Mass % of total unit wt. (median)	Subpart mass of total wt. (%)
1	Cover and Base Resin	PPS	0.030	Poly(thio-1,4-phenylene) <Polyphenylene Sulfide>	25212-74-2	65-75%	69.75%	18.68%	26.8%
				Potassium octatitanate	59766-31-3	25-35%	29.75%	7.97%	
				Copper	7440-50-8	0-1%	0.50%	0.13%	
2	Cover Plate	Stainless steel SUS301	0.038	Carbon	7440-44-0	0.15% Max.	0.075%	0.03%	33.9%
				Silicon	7440-21-3	1.00% Max.	0.50%	0.17%	
				Manganese	7439-96-5	2.00% Max.	1.00%	0.34%	
				Phosphorus	7723-14-0	0.045% Max.	0.02%	0.01%	
				Sulfur	7704-34-9	0.030% Max.	0.015%	0.005%	
				Nickel	7440-02-0	6.00%-8.00%	7.00%	2.38%	
				Chromium	7440-47-3	16.00%-18.00%	17.00%	5.77%	
3	Bimetal Disc	Iron alloy	0.005	Iron	7439-89-6	Remain	74.39%	25.24%	4.5%
				Nickel	7440-02-0	27.0%		1.21%	
				Cobalt	7440-48-4	4.2%		0.19%	

† For Material Mass is median value for range, please contact Bourns.

MATERIAL DECLARATION SHEET



				Chromium	7440-47-3	1.4%		0.06%	
				Manganese	7439-96-5	0.3%		0.01%	
				Iron	7439-89-6	67.1%		3.00%	
4	Arm	Copper alloy	0.014	Copper	7440-50-8	95.46%		11.93%	12.5%
				Chromium	7440-47-3	0.24%		0.03%	
				Magnesium	7439-95-4	0.10%		0.01%	
				Silver	7440-22-4	3.66%		0.46%	
				Nickel	7440-02-0	0.40%		0.05%	
				Tin	7440-31-5	0.14%		0.02%	
5	Base Terminal	Copper alloy	0.020	Copper	7440-50-8	92.85%		16.58%	17.8%
				Chromium	7440-47-3	0.23%		0.04%	
				Magnesium	7439-95-4	0.09%		0.02%	
				Silver	7440-22-4	6.10%		1.09%	
				Nickel	7440-02-0	0.62%		0.11%	
				Tin	7440-31-5	0.11%		0.02%	
6	PTC	PTC	0.005	Silver	7440-22-4	2.06%		0.09%	4.5%
				Barium Carbonate	513-77-9	58.77%		2.62%	
				Calcium Carbonate	471-34-1	4.60%		0.21%	
				Strontium Carbonate	1633-05-2	4.52%		0.20%	
				Titanium Oxide	13463-67-7	30.05%		1.34%	
		Total weight	0.112						

This Document was updated on: February 27, 2026

Important remarks:

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