

MATERIAL DECLARATION SHEET



Material Number	SDxxWBB			
Product Line	Thermal Cut-Off			
Compliance Date	6 December, 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 ¹	Material Mass % of total unit wt. (median)	Subpart mass of total wt. (%)
1	Cover and Base Resin	PPS	0.031	Poly(thio-1,4-phenylene) <Polyphenylene Sulfide>	25212-74-2	65-75%	69.75%	20.21%	28.9%
				Potassium octatitanate	59766-31-3	25-35%	29.75%	8.62%	
				Copper	7440-50-8	0-1%	0.50%	0.14%	
2	Cover Plate	Stainless steel SUS301	0.038	Carbon	7440-44-0	0.15% Max.	0.075%	0.03%	35.8%
				Silicon	7440-21-3	1.00% Max.	0.50%	0.18%	
				Manganese	7439-96-5	2.00% Max.	1.00%	0.36%	
				Phosphorus	7723-14-0	0.045% Max.	0.02%	0.01%	
				Sulfur	7704-34-9	0.030% Max.	0.015%	0.01%	
				Nickel	7440-02-0	6.00%-8.00%	7.00%	2.49%	
				Chromium	7440-47-3	16.00%-18.00%	17.00%	6.04%	
Iron	7439-89-6	Remain	74.39%	26.42%					
3	Bimetal Disc	Iron alloy	0.005	Nickel	7440-02-0	27.0%		1.26%	4.7%
				Cobalt	7440-48-4	4.2%		0.20%	

¹For Material Mass is median value for range, please contact Bourns.

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				Chromium	7440-47-3	1.4%		0.07%	
				Manganese	7439-96-5	0.3%		0.01%	
				Iron	7439-89-6	67.1%		3.14%	
4	Arm	Copper alloy	0.014	Copper	7440-50-8	95.46%		12.49%	12.7%
				Chromium	7440-47-3	0.24%		0.03%	
				Magnesium	7439-95-4	0.10%		0.01%	
				Silver	7440-22-4	3.66%		0.48%	
				Nickel	7440-02-0	0.40%		0.05%	
				Tin	7440-31-5	0.14%		0.02%	
5	Base Terminal	Copper alloy	0.019	Copper	7440-50-8	Remain		16.49%	17.9%
				Chromium	7440-47-3	0.23%		0.04%	
				Magnesium	7439-95-4	0.09%		0.02%	
				Silver	7440-22-4	6.10%		1.08%	
				Nickel	7440-02-0	0.62%		0.11%	
				Tin	7440-31-5	0.11%		0.02%	
Total weight			0.107						

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.