

MATERIAL DECLARATION SHEET



Material Number	SCxxAAB			
Product Line	Thermal Cut-Off			
Compliance Date	9 August 2023			
RoHS Compliant	Y	MSL		

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.	Subpart mass of total wt. (%)
1	SCxxAAB	Cover and Base Resin	0.006	Poly(thio-1,4-phenylene) <Polyphenylene Sulfide>	25212-74-2	65-75%	69.25%	13.3%-15.4%	18.75%
				Potassium octatitanate	59766-31-3	25-35%	29.25%	5.1%-7.2%	
				Copper	7440-50-8	0-1%	0.50%	0%-0.2%	
				Carbon Black	1333-86-4	0-1%	0.50%	0%-0.2%	
				Additives	-	0-1%	0.50%	0%-0.2%	
2		Cover Plate	0.008	Carbon	7440-44-0	0.15% Max.	0.075%	0%-0.04%	25.00%
				Silicon	7440-21-3	1.00% Max.	0.50%	0%-0.26%	
				Manganese	7439-96-5	2.00% Max.	1.00%	0%-0.53%	
				Phosphorus	7723-14-0	0.045% Max.	0.02%	0%-0.01%	
				Sulfur	7704-34-9	0.030% Max.	0.015%	0%-0.01%	
				Nickel	7440-02-0	6.00%-8.00%	7.00%	1.58%-2.11%	
				Chromium	7440-47-3	16.00%-18.00%	17.00%	4.22%-4.75%	
3		Arm Terminal	0.002	Copper	7440-50-8	98.67%		5.01%	6.25%

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

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				Chromium	7440-47-3	0.25%		0.01%	
				Magnesium	7439-95-4	0.10%		0.01%	
				Tin	7440-31-5	0.98%		0.05%	
4		Bimetal Disc	0.003	Nickel	7440-02-0	27.0%	2.23%		9.38%
				Cobalt	7440-48-4	4.2%	0.35%		
				Chromium	7440-47-3	1.4%	0.12%		
				Manganese	7439-96-5	0.3%	0.02%		
				Iron	7439-89-6	67.1%	5.53%		
				PTC Ceramic body	12047-27-7	99.99%	9.82%		
5		PTC	0.003	Lead	7439-92-1	0.01% (Impurity)	0.01% (Impurity)	0.001%	9.38%
6	Arm	0.004	Copper	7440-50-8	92.70%		10.71%	12.50%	
			Chromium	7440-47-3	0.23%		0.03%		
			Magnesium	7439-95-4	0.09%		0.01%		
			Silver	7440-22-4	6.28%		0.72%		
			Nickel	7440-02-0	0.70%		0.08%		
7	Base Terminal	0.006	Copper	7440-50-8	98.91%	18.26%		18.75%	
			Chromium	7440-47-3	0.25%	0.05%			
			Magnesium	7439-95-4	0.10%	0.02%			
			Silver	7440-22-4	0.35%	0.07%			
			Tin	7440-31-5	0.35%	0.07%			
			Nickel	7440-02-0	0.04%	0.01%			
		Total weight	0.032						

This Document was updated on:

Important remarks:

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