

MATERIAL DECLARATION SHEET



Material Number	SCxxAAA			
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 (%) Median ¹	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	SC##AAA	Cover and Base Resin	0.007	Poly Phenylene Sulfide	26125-40-6	64.75%	7.6%-14.4%	16.7%
				Glass Fiber	65997-17-3	34.75%	2.5%-9.3%	
				Carbon Black	1333-86-4	0.5%	0%-0.17%	
2		Cover Plate	0.017	Carbon	7440-44-0	0.075%	0%-0.06%	40.5%
				Silicon	7440-21-3	0.50%	0%-0.42%	
				Manganese	7439-96-5	1.00%	0%-0.85%	
				Phosphorus	7723-14-0	0.02%	0%-0.02%	
				Sulfur	7704-34-9	0.015%	0%-0.01%	
				Nickel	7440-02-0	7.00%	2.55%-3.39%	
				Chromium	7440-47-3	17.00%	6.79%-7.64%	
				Iron	7439-89-6	74.39%	30.03%-33.09%	
3		Arm Terminal	0.002	Copper	7440-50-8	98.67%	3.84%	4.8%
				Chromium	7440-47-3	0.25%	0.01%	
				Magnesium	7439-95-4	0.10%	0.004%	
				Tin	7440-31-5	0.98%	0.04%	
4		Bimetal Disc	0.003	Nickel	7440-02-0	27.0%	1.70%	7.1%
				Cobalt	7440-48-4	4.2%	0.27%	

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

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				Chromium	7440-47-3	1.4%	0.09%	
				Manganese	7439-96-5	0.3%	0.02%	
				Iron	7439-89-6	67.1%	4.24%	
5		PTC	0.003	PTC Ceramic body	12047-27-7	99.99%	7.52%	7.1%
				Lead	7439-92-1	0.01% (Impurity)	0.001%	
6		Arm	0.004	Copper	7440-50-8	92.70%	8.20%	9.5%
				Chromium	7440-47-3	0.23%	0.02%	
				Magnesium	7439-95-4	0.09%	0.01%	
				Silver	7440-22-4	6.28%	0.55%	
	Nickel			7440-02-0	0.70%	0.06%		
7	Base Terminal	0.006	Copper	7440-50-8	98.90%	13.98%	14.3%	
			Chromium	7440-47-3	0.25%	0.04%		
			Magnesium	7439-95-4	0.10%	0.01%		
			Silver	7440-22-4	0.35%	0.05%		
			Tin	7440-31-5	0.35%	0.05%		
			Nickel	7440-02-0	0.04%	0.01%		
		Total weight	0.042					

This Document was updated on:

Important remarks:

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