


# MATERIAL DECLARATION

# BOURNS®

Material #	PDB182-***P			
Product Line	Potentiometer			
Compliance Date	Since Inception			
RoHS Compliant	Yes	MSL	N/A	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Materials/ Substances	CASRN If applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. [%]
1	Shaft	Aluminum	2.18	Aluminum	7429-90-5	96	28.2508	29.428
				Magnesium	7439-95-4	1.33	0.3924	
				Calcium	7440-70-2	1.33	0.3924	
				Silicon	7440-21-3	1.33	0.3924	
2	Bushing	ZINC ALLOY	1.78	Zinc	7440-66-6	94.82	22.7833	24.028
				Aluminum	7429-90-5	4.16	0.9996	
				Magnesium	7439-95-4	0.1	0.0240	
				Copper	7440-50-8	0.9	0.2163	
				Silicon	7440-21-3	0.02	0.0048	
3	Element	Bakelite	0.359 × 2	Silica fused	60676-86-0	68	6.5906	9.692
				Epoxy cresol novolac	39690-82-2	20	1.9384	
				Phenol novolac	9003-35-4	7	0.6784	
				Antimony trioxide	1309-64-4	3	0.2908	
				Brominated epoxy black	40039-93-8	2	0.1938	
5	Slider	Copper (Without plating)	0.06 × 2	Copper	7440-50-8	91.68	1.4852	1.620
				Tin	7440-31-5	8.167	0.1323	
				Phosphorus	7723-14-0	0.153	0.0025	

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6	Rotor Seat	POM	0.6 (0.3×2)	Polyoxymethylene	30846-29-8	100	8.099	8.099
7	Terminals	SPCC-SD	0.78 (0.13×6)	Carbon	7440-44-0	0.5	0.0526	10.529
				Manganese	7439-96-5	6	0.6318	
				Phosphorus	7723-14-0	5	0.5265	
				Iron	7439-89-6	88	9.2655	
				Silicon	7440-21-3	0.5	0.0526	
		Plating		Cu(Inner layer,thickness:1-3um) Sn(Outer layer,thickness:2-3um)	7440-50-8 7440-31-5	100	N/A	
8	Case	SPCC-SD	1.22	Carbon	7440-44-0	0.5	0.0823	16.469
				Manganese	7439-96-5	6	0.9882	
				Phosphorus	7723-14-0	5	0.8235	
				Iron	7439-89-6	88	14.4927	
				Silicon	7440-21-3	0.5	0.0823	
		Plating		Tin	7440-31-5	100	N/A	
9	Lube	Polysiloxane	0.01	Polysiloxane	63148-62-9	100	0.135	0.135
		Total weight	7.408					

**This Document was updated on: Aug 24, 2012**

**The weight was measured by model PDB181-K430P-103B. Important remarks:**

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