


# MATERIAL DECLARATION



Material #	PDB181-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	0.98	Aluminum	7429-90-5	96	17.493	18.222
				Magnesium	7439-95-4	1.33	0.2424	
				Calcium	7440-70-2	1.33	0.2424	
				Silicon	7440-21-3	1.33	0.2424	
2	Bushing	ZINC ALLOY	1.78	Zinc	7440-66-6	94.82	31.384	33.098
				Aluminum	7429-90-5	4.16	1.377	
				Magnesium	7439-95-4	0.1	0.033	
				Copper	7440-50-8	0.9	0.298	
				Silicon	7440-21-3	0.02	0.007	
3	Element	Bakelite	0.359	Silica fused	60676-86-0	68	4.539	6.675
				Epoxy cresol novolac	39690-82-2	20	1.335	
				Phenol novolac	9003-35-4	7	0.467	
				Antimony trioxide	1309-64-4	3	0.2	
				Brominated epoxy black	40039-93-8	2	0.134	
5	Slider	Copper (Without plating)	0.065	Copper	7440-50-8	91.68	1.108	1.209
				Tin	7440-31-5	8.167	0.099	
				Phosphorus	7723-14-0	0.153	0.002	

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6	Rotor Seat	POM	0.322	Polyoxymethylene	30846-29-8	100	5.987	5.987
7	Terminals	SPCC-SD	0.54 (0.18 × 3)	Carbon	7440-44-0	0.5	0.050	10.041
				Manganese	7439-96-5	6	0.602	
				Phosphorus	7723-14-0	5	0.502	
				Iron	7439-89-6	88	8.836	
				Silicon	7440-21-3	0.5	0.051	
		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	1.322	Carbon	7440-44-0	0.5	0.123	24.582
				Manganese	7439-96-5	6	1.475	
				Phosphorus	7723-14-0	5	1.229	
				Iron	7439-89-6	88	21.632	
				Silicon	7440-21-3	0.5	0.123	
		Plating		Tin	7440-31-5	100	N/A	
9	Lube	Polysiloxane	0.01	Polysiloxane	63148-62-9	100	0.186	0.186
		Total weight	5.378					

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

**The weight was measured by model PDB181-P415P-103B.**

**Important remarks:**

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