


MATERIAL DECLARATION SHEET

BOURNS®

Material Number	Model PTH			
Product Line	Rotary Potentiometer			
Compliance Date	2014-06-24			
RoHS Compliant	YES	MSL	N/A	

No.	Construction element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material \ Substances	CAS-No. If applicable	Material mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Inner Shaft	Brass	2.160	Copper	7440-50-8	58	13.7228	23.66
				Zinc	7440-66-6	40	9.464	
				Lead	7439-92-1	2	0.4732	
	Outer Shaft	Brass	1.658	Copper	7440-50-8	58	10.5328	18.16
				Zinc	7440-66-6	40	7.264	
				Lead	7439-92-1	2	0.3632	
	Cam Shaft	Brass	0.064	Copper	7440-50-8	57	0.399	0.7
				Zinc	7440-66-6	39.5	0.2765	
				Lead	7439-92-1	1.8	0.0126	
Ag-plating (0.5~1 μm)		Silver		7440-22-4	1.7	0.0119		

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2	Bushing	Zinc Casting	2.5	Zinc	7440-66-6	95.9374	26.2677	27.38
				Cadmium	7440-43-9	0.0004	0.0001	
				Copper	7440-50-8	0.001	0.0003	
				Iron	7439-89-6	0.002	0.0005	
				Indium	7440-74-6	0.0005	0.0001	
				Magnesium	7439-95-4	0.05	0.0137	
				Nickel	7440-02-0	0.001	0.0003	
				Lead	7439-92-1	0.002	0.0005	
				Silicon	14464-46-1	0.005	0.0014	
				Tin	7440-31-5	0.0005	0.0001	
				Tantalum	7440-25-7	0.0002	0.0001	
				Aluminum	7429-90-5	4	1.0952	
	Stopper Plate	Zinc Casting	0.347	Zinc	7440-66-6	95.9374	3.64561	3.8
				Cadmium	7440-43-9	0.0004	0.00001	
				Copper	7440-50-8	0.001	0.00004	
				Iron	7439-89-6	0.002	0.00008	
				Indium	7440-74-6	0.0005	0.00002	
				Magnesium	7439-95-4	0.05	0.0019	
				Nickel	7440-02-0	0.001	0.00004	
				Lead	7439-92-1	0.002	0.00008	
Silicon				14464-46-1	0.005	0.00019		
Tin				7440-31-5	0.0005	0.00002		
Tantalum				7440-25-7	0.0002	0.00001		
Aluminum				7429-90-5	4	0.152		

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2	Spacer	Zinc Casting	0.458	Zinc	7440-66-6	95.9374	4.81606	5.02
				Cadmium	7440-43-9	0.0004	0.00002	
				Copper	7440-50-8	0.001	0.00005	
				Iron	7439-89-6	0.002	0.00010	
				Indium	7440-74-6	0.0005	0.000025	
				Magnesium	7439-95-4	0.05	0.00251	
				Nickel	7440-02-0	0.001	0.00005	
				Lead	7439-92-1	0.002	0.00010	
				Silicon	14464-46-1	0.005	0.00025	
				Tin	7440-31-5	0.0005	0.000025	
				Tantalum	7440-25-7	0.0002	0.00001	
				Aluminum	7429-90-5	4	0.2008	
3	Leaf Spring	t0.2 Phosphor Bronze	0.197	Copper	7440-50-8	93.45	2.0185	2.16
				Tin	7440-31-5	6.25	0.135	
				Phosphorus	7723-14-0	0.2	0.0043	
				Iron	7439-89-6	0.1	0.0022	
	SW Contact Blade SW Terminal (Ag Plating 0.5~1um)	t0.3 Phosphor Bronze	0.161	Copper	7440-50-8	93.37	1.6433	1.76
				Tin	7440-31-5	6.23	0.1096	
				Phosphorus	7723-14-0	0.2	0.0035	
		Iron		7439-89-6	0.1	0.0018		
Silver plating		Silver	7440-22-4	0.1	0.0018			

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4	Element (PCB)	t0.8 Bakelite Plastic	0.3	Phenolic Resin	9003-08-1	52	1.71	3.28
				High insulation resistance paper	N/A	48	1.57	
5	EL-Block Case	PBT	0.824	Polybutylene Terephthalate	26062-94-2	70	6.32	9.02
	SW-Block Case			Glass Fiber	65997-17-3	30	2.70	
	Spacer							
	Slide Contact Holder							
6	SW Cam	POM	0.091	Polyacetal copolymer	24969-26-4	100	1.0	1.0
	SW Actuator							
7	EL-Terminal	t0.3 steel	0.19	Carbon	7440-44-0	0.040	0.0008	2.08
				Manganese	7439-96-5	0.290	0.0060	
				Phosphorus	7723-14-0	0.014	0.0003	
				Sulfur	7704-34-9	0.008	0.0002	
				Silicon	7440-21-3	0.010	0.0002	
				Aluminum	7429-90-5	0.051	0.0011	
				Iron	7439-89-6	99.587	2.0714	
	Tin-plating (3~5 μ m)	0.01	Tin	7440-31-5	100	0.11	0.11	

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8	Slide Contact	T0.12 Nickel Silver	0.04	Copper	7440-50-8	54.787	0.241063	0.44
				Nickel	7440-02-0	17.570	0.077308	
				Zinc	7440-66-6	27.260	0.119944	
				Lead	7439-92-1	0.001	0.000004	
				Tin	7440-31-5	0.002	0.000008	
				Iron	7439-89-6	0.028	0.000123	
				Manganese	7439-96-5	0.350	0.001542	
				Silicon	7440-21-3	0.002	0.000008	
9	Spring	ψ 0.4 Steel Wire	0.03	Iron	7439-89-6	98.98	0.32662	0.33
				Carbon	7440-44-0	0.18	0.0006	
				Sulfur	7704-34-9	0.05	0.00015	
				Manganese	7439-96-5	0.75	0.0025	
				Phosphorus	7723-14-0	0.04	0.00013	
10	Rivet	φ 3 Aluminum	0.1	Silicon	7440-21-3	0.125	0.0014	1.1
				Iron	7439-89-6	0.186	0.002	
				Copper	7440-50-8	5.415	0.0593	
				Zinc	7440-66-6	0.135	0.0015	
				Titanium	7440-32-6	0.01	0.0001	
				Tin	7440-31-5	0.79	0.0087	
				Bismuth	7440-69-9	0.536	0.0059	
				Aluminum	7429-90-5	92.723	1.0156	
		Total weight (g)	9.13					

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Important remarks: It is the responsibility of the user to verify they are accessing the latest version.