

MATERIAL DECLARATION



Material Number	PDB185-GTR31 (long bushing)			
Product Line	Rotary Potentiometer			
Compliance Date	2013-10-29			
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	EL-Terminal Cover	t0.3 steel t0.5 steel	1.744	Carbon	7440-44-0	0.040	0.0042	10.62
				Manganese	7439-96-5	0.290	0.0308	
				Phosphorus	7723-14-0	0.014	0.0016	
				Sulfur	7704-34-9	0.008	0.0008	
				Silicon	7440-21-3	0.010	0.0011	
				Aluminum	7429-90-5	0.051	0.0054	
				Iron	7439-89-6	99.587	10.5761	
		Tin-plating		Tin	7440-31-5	100	Tin-plating 3~5 μm	
2	VR Element (PCB).	T0.8 Bakelite Plastic	0.887	Phenolic Resin	9003-35-4	52	2.80901	5.4
	SW Element (PCB)	t1.2 Bakelite Plastic		High insulation resistance paper	9004-34-6	48	2.59294	

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3	Slide Contact	t0.18 Nickel Sliver	0.069	Copper	7440-50-8	55	0.231	0.42
	Contact Wiper	t0.15 Nickel Sliver		Nickel	7440-02-0	18	0.0756	
				Zinc	7440-66-6	27	0.1134	
4	Slide Contact Holder	PC	0.429	Polycarbonate	25037-45-0	100	2.61267	2.61
5	Bushing	φ 9 Brass	4.632	Copper	7440-50-8	57	16.07942	28.20
				Lead	7439-92-1	1.8	0.50777	
				Iron	7439-89-6	0.5	0.14105	
				Tin-Lead	7440-31-5 7439-89-6	1.2	0.33851	
				Zinc	7440-66-6	39.5	11.14275	
6	Shaft	φ 6.35 Aluminium	1.95	Silicon	7440-21-3	0.125	0.01484	11.88
				Iron	7439-89-6	0.186	0.02209	
				Copper	7440-50-8	5.415	0.64307	
				Zinc	7440-66-6	0.135	0.01603	
				Titanium	7440-32-6	0.01	0.00119	
				Tin	7440-31-5	0.79	0.09382	
				Bismuth	7440-69-9	0.536	0.06365	
				Aluminum	7429-90-5	92.723	11.01156	
				Others - trace	--	0.08	0.00950	
7	Front Plate	t0.5 Tin Coated plate	4.635	Iron	7439-89-6	47.4998	13.4091	28.23
	Switch Cover	t0.6 Tin Coated plate		Silicon	7440-21-3	1	0.2823	
				Manganese	7439-96-5	20.8	5.8718	
				Phosphorus	7723-14-0	12.9	3.6417	
				Sulfur	7704-34-9	11.9	3.3594	
				Copper	7440-50-8	1	0.2823	

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				Tantalum	7440-25-7	0.0002	0.0001	
				Aluminum	7429-90-5	3.9	1.101	
				Tin plating	7440-31-5	1	0.2823	
8	Spring Washer SW Clip	t0.2 Phosphor Bronze t0.07 Phosphor Bronze	0.177	Tin	7440-31-5	8.45	0.09109	1.08
				Phosphorus	7723-14-0	0.09	0.00097	
				Lead	7439-92-1	0.003	0.00003	
				Iron	7439-89-6	0.002	0.00002	
				Zinc	7440-66-6	0.004	0.00004	
				Copper	7440-50-8	91.451	0.98580	
				Tin	7440-31-5			
9	Pin Spring	φ 0.8 Steel Wire φ 0.35 Steel Wire	0.11	Carbon	7440-44-0	0.827	0.0055	0.67
				Silicon	14464-46-1	0.313	0.0021	
				Manganese	7439-96-5	0.460	0.0031	
				Phosphorus	7723-14-0	0.009	0.0001	
				Sulfur	7704-34-9	0.003	0.0001	
				Copper	7440-48-4	0.010	0.0001	
				Iron	7439-89-6	98.378	0.6590	
10	Leaf Spring	t0.1 steel	0.084	Carbon	7440-44-0	0.050	0.00026	0.51
				Manganese	7439-96-5	0.240	0.00122	
				Phosphorus	7723-14-0	0.016	0.00008	
				Sulfur	7704-34-9	0.012	0.00006	
				Silicon	7440-21-3	0.010	0.00005	

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				Aluminum	7429-90-5	0.045	0.00023	
				Iron	7439-89-6	99.627	0.50810	
11	SW Terminal	t0.25 Brass	0.563	Copper	7440-50-8	65.685	2.253	3.43
				Iron	7439-89-6	0.035	0.00120	
				Lead	7439-92-1	0.002	0.00007	
				Zinc	7440-66-6	34.278	1.17573	
				Silver	7440-22-4	100	Ag Plating (0.5~1um)	
		Ag Plating						
13	Actuator	POM	1.141	Polyoxymethylene	30846-29-8	100	6.95	6.95
		Total weight (g)	16.421					

This Document was updated on: **October 19, 2014**

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Please see RoHS Certificate of Compliance for exemptions used.