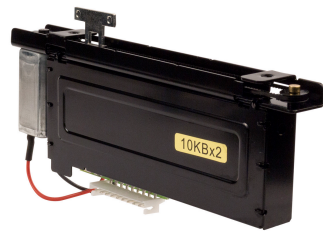


MATERIAL DECLARATION



Material Number	PSP60-082A-XXXX			
Product Line	POTENTIOMETER			
Compliance Date	2017.01.26			
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	Lever	t1.2 Steel	2.495	Carbon	7440-44-0	0.040	0.0010	2.6565
				Manganese	7439-96-5	0.210	0.0056	
				Phosphorus	7723-14-0	0.011	0.0003	
				Sulfur	7704-34-9	0.013	0.0003	
				Silicon	7440-21-3	0.010	0.0003	
				Aluminum	7429-90-5	0.045	0.0012	
				Iron	7439-89-6	99.671	2.6478	
		Nickel Plating (2~3um)	0.001	Nickel	7440-02-0	100	0.0011	0.0011
2	Slide contact holder	POM	1.804	Polyoxymethylene	30846-29-8	100	1.9208	1.9208

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3	Slide contact	t0.056 AgPd	0.004	Silver	7440-22-4	51	0.0021	0.0042
				Palladium	7440-05-3	49	0.0021	
		Phosphor Bronze	0.038	Tin	7440-31-5	8	0.0032	0.0406
				Phosphorus	7723-14-0	0.05	0.00002	
				Zinc	7440-66-6	0.01	0.000004	
				Iron	7439-89-6	0.003	0.000001	
				Lead	7439-92-1	0.003	0.000001	
				Copper	7440-50-8	91.934	0.03733	
				Tin	7440-31-5			
Phosphorus	7723-14-0							

4	Slide contact	t0.08 Phosphor Bronze	0.0139	Tin	7440-31-5	8.45	0.0012506	0.0148
				Phosphorus	7723-14-0	0.09	0.0000133	
				Lead	7439-92-1	0.003	0.0000004	
				Iron	7439-89-6	0.002	0.0000003	
				Zinc	7440-66-6	0.004	0.0000006	
				Copper	7440-50-8	91.451	0.0135348	
				Tin	7440-31-5			
				Phosphorus	7723-14-0			
		Ag Plating (0.5~1um)	0.0001	Silver	7440-22-4	100	0.0001	0.0001

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5	Prop	ψ3 stainless steel	9.42	Iron	7439-89-6	99.59	9.9887	10.0298
				Chromium	7440-47-3	0.18	0.0181	
				Nickel	7440-02-0	0.08	0.0080	
				Manganese	7439-96-5	0.10	0.0100	
				Molybdenum	7439-98-7	0.03	0.0030	
				Copper	7440-50-8	0.02	0.0020	
6	Spacer	POM	2.36	Polyoxymethylene	30846-29-8	100	2.5128	2.5128
7	O ring	NBR (Acrylonitrile butadiene india rubber)	0.2	Butadiene	00106-99-0	47	0.1001	0.2129
				Acrylonitrile	00107-13-1	52	0.1107	
				Additive, not to declare	---	1	0.0021	
8	Element	Glass Fiber	7.276	Copper	7440-50-8	10.5	0.8134	7.7470
				Epoxy	26265-08-7	62.0	4.8032	
				Glass fiber	65997-17-3	27.5	2.1304	
9	Resistor	Carbon film	0.01	Calcium carbonate	1317-65-3	63.4	0.0067	0.0106
				Carbon	1333-86-4	36.6	0.0039	
		Silver film	0.01	Phenolic resin	9039-25-2	50	0.0053	0.0106
				Calcium carbonate	1317-65-3	10	0.0011	
				Silver	7440-22-4	40	0.0042	

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10	Connector	Nylon	0.23	Polyamide	32131-17-2	70	0.1714	0.2449
				Flame retardant	37640-57-6	30	0.0735	
		Brass	0.329	Iron	7439-89-6	0.035	0.00012	0.3503
				Lead	7439-92-1	0.002	0.00001	
				Zinc	7440-66-6	34.278	0.12008	
				Copper	7440-50-8	65.685	0.23009	
		Tin plating	0.001	Tin	7440-31-5	100	0.0011	0.0011
11	Wire	PVC	0.166	Polyvinyl chloride resin	9002-86-2	50	0.08835	0.1767
				1,2,4-Benzenetricarboxylic acid, tris(2-ethylhexyl) ester	3319-31-1	25	0.04417	
				Octadecanoic acid, calcium salt	1592-23-0	4	0.00707	
				Carbonic acid	471-34-1	21	0.03711	
		Copper	0.134	Copper	7440-50-8	99	0.1413	0.1427
				Tin	7440-31-5	1	0.0014	
12	Heat shrink tubing	PE	0.052	High Density Polyethylene	9002-88-4	100	0.0554	0.0554
13	Solder	Tin	0.114	Tin	7440-31-5	96.5	0.1172	0.1214
				Copper	7440-50-8	0.5	0.0006	
				Silver	7440-22-4	3	0.0036	

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14	Frame (Above)	t0.5 Steel	17.086	Carbon	7440-44-0	0.050	0.0091	18.1921
				Manganese	7439-96-5	0.240	0.0437	
				Phosphorus	7723-14-0	0.016	0.0029	
				Sulfur	7704-34-9	0.012	0.0022	
				Silicon	7440-21-3	0.010	0.0018	
				Aluminum	7429-90-5	0.045	0.0082	
				Iron	7439-89-6	99.627	18.1242	
		Black ED (5~8um)	0.063	Kaolin	1332-58-7	66.7	0.0448	0.0671
				Carbon black	1333-86-4	31.1	0.0209	
				EPOXY RESIN	proprietary	2.2	0.0015	
15	Frame (Under)	t0.6 Steel	20.022	Carbon	7440-44-0	0.050	0.0106	21.3181
				Manganese	7439-96-5	0.240	0.0512	
				Phosphorus	7723-14-0	0.016	0.0034	
				Sulfur	7704-34-9	0.012	0.0026	
				Silicon	7440-21-3	0.010	0.0021	
				Aluminum	7429-90-5	0.045	0.0096	
				Iron	7439-89-6	99.627	21.2386	
		Black ED (5~8um)	0.06	Kaolin	1332-58-7	66.7	0.0426	0.0639
				Carbon black	1333-86-4	31.1	0.0199	
				EPOXY RESIN	proprietary	2.2	0.0014	

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16	Attaching Plate	t0.8 Steel	15.087	Carbon	7440-44-0	0.050	0.0080	16.0637
				Manganese	7439-96-5	0.240	0.0385	
				Phosphorus	7723-14-0	0.016	0.0026	
				Sulfur	7704-34-9	0.012	0.0019	
				Silicon	7440-21-3	0.010	0.0016	
				Aluminum	7429-90-5	0.045	0.0072	
				Iron	7439-89-6	99.627	16.0038	
		Black ED (5~8um)	0.058	Kaolin	1332-58-7	66.7	0.0411	0.0617
				Carbon black	1333-86-4	31.1	0.0192	
				EPOXY RESIN	Proprietary	2.2	0.0014	
17	Timing belt	Fibers and polyurethane synthetic rubber	0.129	Polyurethane	9009-54-05	99	0.1359	0.1373
				Additive , not to declare	--	1	0.0014	
18	Spacer	POM	0.156	Polyoxymethylene	30846-29-8	100	0.1661	0.1661
19	Idler	POM	0.123	Polyoxymethylene	30846-29-8	100	0.1310	0.1310
20	Gear	POM	0.098	Polyoxymethylene	30846-29-8	100	0.1043	0.1043
21	Cam	POM	0.098	Polyoxymethylene	30846-29-8	100	0.1043	0.1043
22	Rivet	Brass	0.142	Copper	7440-50-8	65.685	0.0993	0.1512
				Iron	7439-89-6	0.035	0.0001	
				Lead	7439-92-1	0.002	0.000003	
				Zinc	7440-66-6	34.278	0.0518	

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23	Screw	Steel	0.0999	Carbon	7440-44-0	0.050	0.00005	0.1064
				Manganese	7439-96-5	0.240	0.00025	
				Phosphorus	7723-14-0	0.016	0.00002	
				Sulfur	7704-34-9	0.012	0.00001	
				Silicon	7440-21-3	0.010	0.00001	
				Aluminum	7429-90-5	0.045	0.00005	
				Iron	7439-89-6	99.627	0.1060	
		Zinc Plating (5~8um)	0.0001	Zinc	7440-66-6	100	0.0001	0.0001
24	Motor	 psg-S-005883-00.pdf	16.04	 MOTOR-華端	N/A	100	17.078	17.0784
Total weight (g)			93.92					

This Document was updated on: 2014.01.13

Important remarks:

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