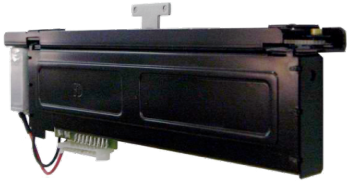


# MATERIAL DECLARATION SHEET



Material Number	<b>PSP01-082A-XXXX</b>			
Product Line	<b>POTENTIOMETER</b>			
Compliance Date	<b>2016-06-29</b>			
RoHS Compliant	<b>YES</b>	<b>MSL</b>	<b>N/A</b>	

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	2.3712	Carbon	7440-44-0	0.040	0.001	1.993
				Manganese	7439-96-5	0.210	0.004	
				Phosphorus	7723-14-0	0.011	0.0002	
				Sulfur	7704-34-9	0.013	0.0003	
				Silicon	7440-21-3	0.010	0.0002	
				Aluminum	7429-90-5	0.045	0.001	
		Iron	7439-89-6	99.671	2.090			
	Nickel Plating (2~3um)	0.1248	Nickel	7440-02-0	100	2.097	0.105	
2	Slide contact holder	POM	1.804	Polyoxymethylene	30846-29-8	100	1.52	1.516

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3	Slide contact	t0.056 AgPd	0.021	Silver	7440-22-4	51	0.0102	0.018		
				Palladium	7440-05-3	49	0.0098			
		Phosphor Bronze	0.021			Tin	7440-31-5	8	0.0016	0.018
						Phosphorus	7723-14-0	0.05	0.00001	
						Zinc	7440-66-6	0.01	0.000002	
						Iron	7439-89-6	0.003	0.0000006	
						Lead	7439-92-1	0.003	0.0000006	
						Copper +	7440-50-8	91.934	0.0183868	
						Tin +	7440-31-5			
						Phosphorus	7723-14-0			
4	Slide contact	t0.08 Phosphor Bronze	0.0133	Tin	7440-31-5	8.45	0.001	0.011		
				Phosphorus	7723-14-0	0.09	0.00001			
				Lead	7439-92-1	0.003	0.0000004			
				Iron	7439-89-6	0.002	0.0000002			
				Zinc	7440-66-6	0.004	0.0000005			
				Copper +	7440-50-8	91.451	0.011			
				Tin +	7440-31-5					
				Phosphorus	7723-14-0					
						Ag Plating (0.5~1um)	0.0007		Silver	7440-22-4

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5	Prop	ϕ3 stainless steel	13.75	Iron	7439-89-6	99.59	11.505	11.555	
				Chromium	7440-47-3	.18	0.021		
				Nickel	7440-02-0	.08	0.009		
				Manganese	7439-96-5	.10	0.012		
				Molybdenum	7439-98-7	.03	0.003		
				Copper	7440-50-8	.02	0.002		
6	Spacer	POM	2.36	Polyoxymethylene	30846-29-8	100	1.980	1.983	
7	O ring	NBR (Acrylonitrile butadiene india rubber)	0.2	Poly-acrylnitrile-butadiene	9003-18-3	43	0.0731	0.168	
				Basic rubber	N/A	10	0.017		
				Carbon black	1333-86-4	33	0.0561		
				Silicon dioxide	7631-86-9	10	0.017		
				Bis(2-propylheptyl) phthalate	53306-54-0	2	0.0034		
				Zinc oxide	1314-13-2	2	0.0034		
8	Element	Epoxy	8.5	Copper	7440-50-8	10.5	0.750	7.143	
				Brominated Epoxy	26265-08-7	62.0	4.428		
				Glass fabrics	65997-17-3	27.5	1.964		
		Carbon film		Silver film	Carbital	71-36-3	63		0.004
		Carbon			1333-86-4	37	0.003		
		Phenol resin			108-95-2	50	0.008		
		Carbital			71-36-3	10	0.002		
		Silver			7440-22-4	40	0.007		

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10	Connector	Nylon	0.56	Polyamide	32131-17-2	70	0.329	0.471	
				Melamine Cyanurate flame retardant	37640-57-6	30	0.141		
		Brass		Copper	7440-50-8	65.685	0.309		
				Iron	7439-89-6	0.035	0.0002		
				Lead	7439-92-1	0.002	0.00001		
				Zinc	7440-66-6	34.278	0.161		
				Copper	7440-50-8	65.685	0.309		
				Tin	7440-31-5	100	0.471		
Tin plating									
11	Wire	PVC	0.285	Polyvinyl chloride resin	9002-86-2	50	0.12	0.240	
				1,2,4-Benzenetricarboxylic acid, tris(2-ethylhexyl) ester Totm	3319-31-1	25	0.06		
				Octadecanoic acid, calcium salt	1592-23-0	4	0.0096		
				Carbonic acid	471-34-1	21	0.0504		
		Copper plating		0.015	Copper	7440-50-8	99	0.0129	0.013
					Tin	7440-31-5	1	0.0001	
12	Heat shrink tubing	PE	0.052	High Density Polyethylene	9002-88-4	100	0.044	0.044	
13	Solder	SnCuAg	0.114	Tin	7440-31-5	96.5	0.092	0.096	
				Copper	7440-50-8	0.5	0.0005		
				Silver	7440-22-4	3	0.003		

# MATERIAL DECLARATION SHEET



14	Frame (Above)	t0.5 Steel	22.74	Carbon	7440-44-0	0.050	0.010	19.109
				Manganese	7439-96-5	0.240	0.048	
				Phosphorus	7723-14-0	0.016	0.003	
				Sulfur	7704-34-9	0.012	0.002	
				Silicon	7440-21-3	0.010	0.002	
				Aluminum	7429-90-5	0.045	0.009	
				Iron	7439-89-6	99.627	20.039	
	Black ED ( 5~8um)	1.20	Kaolin	1332-58-7	64	3.017	1.009	
			Carbon black	1333-86-4	30	1.408		
			Dibutyl tin oxide	818-08-6	4	0.201		
Epoxy resin			proprietary	2	0.101			
15	Frame (Under)	t0.6 Steel	26.348	Carbon	7440-44-0	0.050	0.012	22.141
				Manganese	7439-96-5	0.240	0.056	
				Phosphorus	7723-14-0	0.016	0.004	
				Sulfur	7704-34-9	0.012	0.003	
				Silicon	7440-21-3	0.010	0.002	
				Aluminum	7429-90-5	0.045	0.010	
				Iron	7439-89-6	99.627	23.216	
	Black ED ( 5~8um)	1.387	Kaolin	1332-58-7	15	3.495	1.166	
			Carbon black	1333-86-4	7	1.631		
			Dibutyl tin oxide	818-08-6	1	0.233		
Epoxy resin			proprietary	0.5	0.117			



# MATERIAL DECLARATION SHEET



16	Attaching Plate	t0.8 Steel	19.152	Carbon	7440-44-0	0.050	0.008	16.094
				Manganese	7439-96-5	0.240	0.041	
				Phosphorus	7723-14-0	0.016	0.003	
				Sulfur	7704-34-9	0.012	0.002	
				Silicon	7440-21-3	0.010	0.002	
				Aluminum	7429-90-5	0.045	0.008	
		Iron	7439-89-6	99.627	16.875			
		Black ED ( 5~8um)	1.008	Kaolin	1332-58-7	15	2.541	0.847
				Carbon black	1333-86-4	7	1.186	
				Dibutyl tin oxide	818-08-6	1	0.169	
Epoxy resin	proprietary			0.5	0.085			
17	Timing belt	Fibers and polyurethane synthetic rubber	0.216	Polyurethane	9009-54-05	99	0.180	0.182
				Additive not to declare	N/A	1	0.002	
18	Spacer	POM	0.156	Polyoxymethylene	30846-29-8	100	0.130	0.131
19	Idler	POM	0.123	Polyoxymethylene	30846-29-8	100	0.100	0.103
20	Gear	POM	0.098	Polyoxymethylene	30846-29-8	100	0.080	0.082
21	Cam	POM	0.098	Polyoxymethylene	30846-29-8	100	0.080	0.082
22	Rivet	Brass	0.142	Copper	7440-50-8	65.685	0.078	0.119
				Iron	7439-89-6	0.035	0.00004	
				Lead	7439-92-1	0.002	0.000002	
				Zinc	7440-66-6	34.278	0.041	

# MATERIAL DECLARATION SHEET



23	Screw	Steel	0.095	Carbon	7440-44-0	0.050	0.00004	0.080
				Manganese	7439-96-5	0.240	0.0002	
				Phosphorus	7723-14-0	0.016	0.00001	
				Sulfur	7704-34-9	0.012	0.00001	
				Silicon	7440-21-3	0.010	0.00001	
				Aluminum	7429-90-5	0.045	0.00004	
				Iron	7439-89-6	99.627	0.084	
Zinc Plating ( 5~8um)	0.005	Zinc	7440-66-6	100	0.084	0.004		
24	Motor	 psg-S-005883-00.pdf	16.04	 MOTOR-華端		100	13.476	13.476
		<b>Total weight (g)</b>	<b>119</b>					

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.