


MATERIAL DECLARATION



Material Number	PSL01			
Product Line	POTENTIOMETER			
Compliance Date	2017-12-15			
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	1.8945	Carbon	7440-44-0	0.040	0.000709	1.7722
				Manganese	7439-96-5	0.210	0.003722	
				Phosphorus	7723-14-0	0.011	0.000195	
				Sulfur	7704-34-9	0.013	0.000230	
				Silicon	7440-21-3	0.010	0.000177	
				Aluminum	7429-90-5	0.045	0.000797	
		Iron	7439-89-6	99.671	1.766370			
	Nickel Plating (2~3um)	0.2105	Nickel	7440-02-0	100	0.1969	0.1969	
2	Lever & Wiper Carrier (Over mode)	POM	1.265	Polyoxymethylene	30846-29-8	100	1.1833	1.1833

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3	Wiper For Resistor track	t0.056 AgPd	0.006	Silver	7440-22-4	51	0.00286	0.0056
				Palladium	7440-05-3	49	0.00274	
		Phosphor Bronze	0.006	Tin	7440-31-5	8	0.00045	0.0056
				Phosphorus	7723-14-0	0.05	0.000003	
				Zinc	7440-66-6	0.01	0.0000006	
				Iron	7439-89-6	0.003	0.0000002	
				Lead	7439-92-1	0.003	0.0000002	
				Copper	7440-50-8	91.934	0.005148	
				Tin	7440-31-5			
Phosphorus	7723-14-0							
4	Wiper For touch sense track	t0.08 Phosphor Bronze	0.0135	Tin	7440-31-5	8.45	0.001065	0.0126
				Phosphorus	7723-14-0	0.09	0.000011	
				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	0.011523	
				Tin	7440-31-5			
				Phosphorus	7723-14-0			
	Ag Plating (0.5~1um)	0.0015	Silver	7440-22-4	100	0.0014	0.0014	

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5	Prop (Steel track)	Ψ4 stainless steel	24.675	Iron	7439-89-6	99.59	22.9877	23.0823
				Chromium	7440-47-3	0.18	0.04155	
				Nickel	7440-02-0	0.08	0.01847	
				Manganese	7439-96-5	0.10	0.02308	
				Molybdenum	7439-98-7	0.03	0.00693	
				Copper	7440-50-8	0.02	0.00462	
6	Track holder	PBT	0.826	Polybutylene terephthalate resin	26062-94-2	94.98	0.73391	0.7727
				Glass Fiber	65997-17-3	5	0.03863	
				Additives not to declare	NA	0.02	0.00015	
7	O ring	NBR (Acrylonitrile butadiene india rubber)	0.064	Butadiene	106-99-0	47	0.028153	0.0599
				Acrylonitrile	107-13-1	52	0.031148	
				Additive not to declare	NA	1	0.000599	
8	Printed circuit board (FR4)	Glass Fiber	4.986	Copper	7440-50-8	10.5	0.48974	4.6642
				Epoxy	26265-08-7	62.0	2.89180	
				Glass fabrics	65997-17-3	27.5	1.28265	
9	Resistor	Carbon print	0.01	Carbon black	1333-86-4	100	0.0094	0.0094
		Silver print	0.01	Phenolic resin	9039-25-2	55.6	0.00523	0.0094
				Silver	7440-22-4	44.4	0.00417	

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10	Connector	Nylon	0.168	Polyamide	32131-17-2	70	0.11004	0.1572
				Non-halogen Flame retardant	37640-57-6	30	0.04716	
		Brass	0.3528	Copper	7440-50-8	65.685	0.21676	0.3300
				Iron	7439-89-6	0.035	0.000115	
				Lead	7439-92-1	0.002	0.000007	
Tin	0.0392	Tin	7440-31-5	100	0.0367	0.0367		
11	Wire	PVC (insulation)	0.144	Polyvinyl chloride resin	9002-86-2	50	0.06735	0.1347
				Trioctyl trimellitate	3319-31-1	25	0.033675	
				Octadecanoic acid, calcium salt	1592-23-0	4	0.005388	
				Carbonic acid	471-34-1	21	0.028287	
		Copper conductor	0.216	Copper	7440-50-8	99	0.20008	0.2021
				Tin	7440-31-5	1	0.002021	
12	Heat shrink tubing	PE	0.055	High Density Polyethylene	9002-88-4	100	0.0514	0.0514
13	Solder	SnAgCu	0.201	Tin	7440-31-5	96.5	0.18142	0.1880
				Copper	7440-50-8	0.5	0.00094	
				Silver	7440-22-4	3	0.00564	

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14	Housing (A)	t0.5 Steel	11.8665	Carbon	7440-44-0	0.050	0.00555	11.1006
				Manganese	7439-96-5	0.240	0.03664	
				Phosphorus	7723-14-0	0.016	0.001776	
				Sulfur	7704-34-9	0.012	0.001332	
				Silicon	7440-21-3	0.010	0.00111	
				Aluminum	7429-90-5	0.045	0.004995	
				Iron	7438-89-6	99.627	11.05919	
	Black ED (5~8um)	1.3185	Kaolin	1332-58-7	67	0.82638	1.2334	
			Carbon black	1333-86-4	31	0.38235		
			Epoxy resin	proprietary	2	0.02467		



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15	Housing (B)	t0.6 Steel	22.7682	Carbon	7440-44-0	0.050	0.01065	21.2986
				Manganese	7439-96-5	0.240	0.051117	
				Phosphorus	7723-14-0	0.016	0.003408	
				Sulfur	7704-34-9	0.012	0.002556	
				Silicon	7440-21-3	0.010	0.002130	
				Aluminum	7429-90-5	0.045	0.009584	
				Iron	7439-89-6	99.627	21.21916	
	Black ED (5~8um)	2.5298	Kaolin	1332-58-7	67	1.5855	2.3665	
			Carbon black	1333-86-4	31	0.7336		
			Epoxy resin	Proprietary	2	0.0473		
16	Bracket	t0.8 Steel	18.9099	Carbon	7440-44-0	0.050	0.00884	17.6893
				Manganese	7439-96-5	0.240	0.04245	
				Phosphorus	7723-14-0	0.016	0.00283	
				Sulfur	7704-34-9	0.012	0.002123	
				Silicon	7440-21-3	0.010	0.001769	
				Aluminum	7429-90-5	0.045	0.00796	
				Iron	7439-89-6	99.627	17.62332	
	Black ED (5~8um)	2.1011	Kaolin	1332-58-7	67	1.316885	1.9655	
			Carbon black	1333-86-4	31	0.609305		
			EPOXY RESIN	Proprietary	2	0.03931		
17	Timing belt	Fibers and polyurethane	0.368	Polyurethane	9009-54-05	99	0.3408	0.3442

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		synthetic rubber		Additive not to declare	N/A	1	0.0034	
18	Belt Locker	POM	0.201	Polyoxymethylene	30846-29-8	100	0.1880	0.1880
19	Idler	POM	0.211	Polyoxymethylene	30846-29-8	100	0.1974	0.1974
20	Gear	POM	0.111	Polyoxymethylene	30846-29-8	100	0.1038	0.1038
21	Pulley	POM	0.111	Polyoxymethylene	30846-29-8	100	0.1038	0.1038
22	Rivet (POST)	Brass	0.52	Copper	7440-50-8	65.685	0.3195	0.4864
				Iron	7439-89-6	0.035	0.0002	
				Lead	7439-92-1	0.002	0.000001	
				Zinc	7440-66-6	34.278	0.1667	
23	Screw	Steel	0.09	Carbon	7440-44-0	0.050	0.000042	0.0842
				Manganese	7439-96-5	0.240	0.000202	
				Phosphorus	7723-14-0	0.016	0.000013	
				Sulfur	7704-34-9	0.012	0.000010	
				Silicon	7440-21-3	0.010	0.000008	
				Aluminum	7429-90-5	0.045	0.000038	
		Iron	7439-89-6	99.627	0.083886			
Zinc Plating (5~8um)	0.01	Zinc	7440-66-6	100	0.0094	0.0094		
24	Motor	 FF-030PK-材質表.pdf	10.64	 MOTOR-華端		100	9.9533	9.9533
Total weight (g)			106.9					

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Important remarks:

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