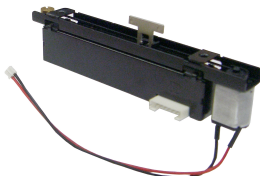


MATERIAL DECLARATION



Material Number	PSL60			
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	0.000928	2.320
				Manganese	7439-96-5	0.210	0.004872	
				Phosphorus	7723-14-0	0.011	0.0002552	
				Sulfur	7704-34-9	0.013	0.0003016	
				Silicon	7440-21-3	0.010	0.000232	
				Aluminum	7429-90-5	0.045	0.001044	
		Iron	7439-89-6	99.671	2.3123672			
	Nickel Plating (2~3um)	0.2105	Nickel	7440-02-0	100	2.58	0.258	
2	Lever & Wiper Carrier (Over mode)	POM	1.265	Polyoxymethylene	30846-29-8	100	1.549	1.549

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3	Wiper For Resistor track	t0.056 AgPd	0.006	Silver	7440-22-4	51	0.00357	0.007
				Palladium	7440-05-3	49	0.00343	
		Phosphor Bronze	0.006	Tin	7440-31-5	8	0.00056	0.007
				Phosphorus	7723-14-0	0.05	0.0000035	
				Zinc	7440-66-6	0.01	0.0000007	
				Iron	7439-89-6	0.003	0.0000021	
				Lead	7439-92-1	0.003	0.0000021	
				Copper	7440-50-8	91.934	0.00643538	
				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	0.0014365	0.017
				Phosphorus	7723-14-0	0.09	0.00000153	
				Lead	7439-92-1	0.003	0.00000051	
				Iron	7439-89-6	0.002	0.00000034	
				Zinc	7440-66-6	0.004	0.00000068	
				Copper	7440-50-8	91.451	0.01554667	
				Tin	7440-31-5			
				Phosphorus	7723-14-0			
		Ag Plating (0.5~1um)	0.0015	Silver	7440-22-4	100	0.002	0.002

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5	Prop (Steel track)	Ψ4 stainless steel	17.01	Iron	7439-89-6	99.59	20.744597	20.830
				Chromium	7440-47-3	0.18	3.7494	
				Nickel	7440-02-0	0.08	0.016664	
				Manganese	7439-96-5	0.10	0.02083	
				Molybdenum	7439-98-7	0.03	0.006249	
				Copper	7440-50-8	0.02	0.004166	
6	Track holder	PBT	0.826	Polybutylene terephthalate resin	26062-94-2	94.98	0.9611976	1.012
				Glass Fiber	65997-17-3	5	0.0506	
				Additives not to declare	NA	0.02	0.0002024	
7	O ring	NBR (Acrylonitrile butadiene india rubber)	0.064	Butadiene	106-99-0	47	0.03666	0.078
				Acrylonitrile	107-13-1	52	0.04056	
				Additive not to declare	--	1	0.00078	
8	Printed circuit board (FR4)	Glass Fiber	3.480	Copper	7440-50-8	10.5	0.44751	4.262
				Epoxy	26265-08-7	62.0	2.64244	
				Glass fiber	65997-17-3	27.5	1.17205	
9	Resistor	Carbon print	0.01	Carbon	1333-86-4	100	0.012	0.012
		Silver print	0.01	Phenol resin	108-95-2	55.6	0.006672	0.012

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				Silver	7440-22-4	44.4	0.005328	
10	Connector	Nylon	0.168	Polyamide	32131-17-2	70	0.1442	0.206
				Flame retardant	37640-57-6	30	0.0618	
		Brass	0.3528	Copper	7440-50-8	65.685	0.2837592	0.432
				Iron	7439-89-6	0.035	0.0001512	
				Lead	7439-92-1	0.002	0.00000864	
				Zinc	7440-66-6	34.278	0.14808096	
		Copper	7440-50-8	65.685	0.2837592			
Tin plating	0.0392	Tin	7440-31-5	100	0.048	0.048		
11	Wire	PVC (pvc insulation)	0.15	Polyvinyl chloride resin	9002-86-2	50	0.092	0.184
				Trioctyl trimellitate	3319-31-1	25	0.046	
				Octadecanoic acid, calcium salt	01592-23-0	4	0.00736	
				Carbonic acid	00471-34-1	21	0.03864	
		Cu (copper conductor)	0.21	Copper	7440-50-8	99	0.25443	0.257
				Tin	7440-31-5	1	0.00257	
12	Heat shrink tubing	PE	0.055	High Density Polyethylene	9002-88-4	100	0.067	0.067
13	Solder	SnAgCu	0.201	Tin	7440-31-5	96.5	0.23739	0.246

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				Copper	7440-50-8	0.5	0.00123	
				Silver	7440-22-4	3	0.00738	
14	Housing (A)	t0.5 Steel	8.658	Carbon	7440-44-0	0.050	0.0053015	10.603
				Manganese	7439-96-5	0.240	0.0254472	
				Phosphorus	7723-14-0	0.016	0.0016965	
				Sulfur	7704-34-9	0.012	0.0012724	
				Silicon	7440-21-3	0.010	0.0010603	
				Aluminum	7429-90-5	0.045	0.0047713	
				Iron	7439-89-6	99.627	10.563451	
	Black electric deposition coating (5~8um)	0.962	Kaolin	1332-58-7	15	0.1767	1.178	
			Carbon black	1333-86-4	7	0.08246		
			Epoxy resin	Proprietary	0.5	0.00589		
15	Housing (B)	t0.6 Steel	16.398	Carbon	7440-44-0	0.050	0.0100405	20.081
				Manganese	7439-96-5	0.240	0.0481944	
				Phosphorus	7723-14-0	0.016	0.0032130	
				Sulfur	7704-34-9	0.012	0.002410	
				Silicon	7440-21-3	0.010	0.002008	



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				Aluminum	7429-90-5	0.045	0.009036	
				Iron	7439-89-6	99.627	20.00061	
		Black electric deposition coating (5~8um)	1.822	Kaolin	1332-58-7	67	1.49477	2.231
				Carbon black	1333-86-4	31	0.69161	
				Epoxy resin	Proprietary	2	0.04462	
16	Bracket	t0.8 Steel	14.076	Carbon	7440-44-0	0.050	0.008619	17.238
				Manganese	7439-96-5	0.240	0.04137	
				Phosphorus	7723-14-0	0.016	0.002758	
				Sulfur	7704-34-9	0.012	0.002069	
				Silicon	7440-21-3	0.010	0.001724	
				Aluminum	7429-90-5	0.045	0.007757	
				Iron	7439-89-6	99.627	17.1737	
	Black ED (5~8um)	1.564	Kaolin	1332-58-7	66.7	1.277305	1.915	
			Carbon black	1333-86-4	31.1	0.595565		
			Epoxy resin	Proprietary	2.2	0.04213		
17	Timing belt	Fibers and polyurethane synthetic rubber	0.313	Polyurethane	9009-54-05	99	0.37917	0.383
				Additive not to declare	--	1	0.00383	
18	Belt Locker	POM	0.201	Polyoxymethylene	CAS 30846-29-8	100	0.246	0.246

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19	Idler	POM	0.211	Polyoxymethylene	CAS 30846-29-8	100	0.258	0.258
20	Gear	POM	0.111	Polyoxymethylene	CAS 30846-29-8	100	0.136	0.136
21	Pulley	POM	0.111	Polyoxymethylene	CAS 30846-29-8	100	0.136	0.136
22	Rivet (POST)	Brass	0.52	Copper	7440-50-8	65.685	0.418413	0.637
				Iron	7439-89-6	0.035	0.000223	
				Lead	7439-92-1	0.002	0.000013	
				Zinc	7440-66-6	34.278	0.218351	
23	Screw	Steel	0.099	Carbon	7440-44-0	0.050	0.000605	0.121
				Manganese	7439-96-5	0.240	0.0002904	
				Phosphorus	7723-14-0	0.016	0.00001936	
				Sulfur	7704-34-9	0.012	0.00001452	
				Silicon	7440-21-3	0.010	0.0000121	
				Aluminum	7429-90-5	0.045	0.00005445	
		Iron	7439-89-6	99.627	0.12054867			
Zinc Plating (5~8um)	0.001	Zinc	7440-66-6	100	0.001	0.001		
24	Motor	 FF-030PK-材質表.pdf f	10.64	 MOTOR 華淵		100	13.03	13.03

MATERIAL DECLARATION

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Total weight (g)

81.66

This Document was updated on: 2017.12.15

Important remarks:

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