


MATERIAL DECLARATION SHEET



Material Number	PEC11L			
Product Line	Encoder			
Compliance Date	Since Inception			
RoHS Compliant	Yes	MSL	N/A	

No.	Constructi on Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Materials/ Substances	CASRN If applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. [%]	
1	Shaft	Aluminum Alloy	0.7	Aluminum	7429-90-5	96	23.77	24.71	
				Magnesium	7439-95-4	1.333	0.33		
				Calcium	7440-70-2	1.333	0.33		
				Silicon	7440-21-3	1.333	0.33		
2	Rear Cover	PBT	0.167	Glass	65997-17-3	20	0.0118	5.896	
				Poly(butylene terephthalate)	30965-26-5	65	3.84		
				Antimony Oxide	1309-64-4	4	0.236		
				Flame Retardant	68928-70-1	10	0.59		
3	Bracket	SPCC-SB	0.45	Carbon	7440-44-0	1	0.159	15.89	
				Manganese	7439-96-5	5	0.795		
				Phosphorus	7723-14-0	5	0.795		
				Iron	7439-89-6	88	13.99		
				Silicon	7440-21-3	1	0.159		
	Plating			0.049	Tin	7440-31-5	99.9	1.73	1.73
					Copper	7440-50-8	0.0004	0.0000069	
					Antimony	1309-64-4	0.0136	0.00024	
					Aluminum	7429-90-5	0.00034	0.00000589	

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4	Detent Spring	Bronze C5210 (Without plating)	0.031	Copper	7440-50-8	91.44	1.0	1.09
				Tin	7440-31-5	8.45	0.09	
				Phosphorus	7723-14-0	0.09	0.00098	
				Lead	7439-92-1	0.003	0.000033	
				Zinc	7440-66-6	0.004	0.000044	
				Iron	7439-89-6	0.002	0.000022	
5	Switch Dome	Bronze	0.013	Copper	7440-50-8	91.44	0.42	0.459
				Tin	7440-31-5	8.45	0.039	
				Phosphorus	7723-14-0	0.09	0.00041	
				Lead	7439-92-1	0.003	0.000014	
				Zinc	7440-66-6	0.004	0.000018	
				Iron	7439-89-6	0.002	0.0000092	
	Plating	0.0015	Silver	7440-22-4	100	0.003	0.053	
6	Bushing	Zinc Alloy	0.97	Zinc	7440-66-6	94.82	32.53	34.245
				Aluminium	7429-90-5	4.16	1.43	
				Magnesium	7439-95-4	0.1	0.0343	
				Copper	7440-50-8	0.9	0.31	

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				Silicon	7440-21-3	0.02	0.007	
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7	Wiper Element & Terminals	PBT	0.145	Glass	65997-17-3	20	1.03	5.119
				Poly(butylene terephthalate)	30965-26-5	65	3.33	
				Antimony Oxide	1309-64-4	4	0.21	
				Flame Retardant	68928-70-1	10	0.512	
				Additives not to declare		1	0.051	
		Bronze	0.11475	Copper	7440-50-8	91.44	3.71	4.051
				Tin	7440-31-5	8.45	0.343	
				Phosphorus	7723-14-0	0.09	0.0037	
				Lead	7439-92-1	0.003	0.00012	
				Zinc	7440-66-6	0.004	0.00016	
				Iron	7439-89-6	0.002	0.00008	
Plating	0.01275	Silver	7440-22-4	100	0.45	0.450		
8	C-Ring	Steel Wire	0.016	Carbon	7440-44-0	1	0.0057	0.565
				Manganese	7439-96-5	5	0.0283	
				Phosphorus	7723-14-0	5	0.0283	
				Iron	7439-89-6	88	0.5	
				Silicon	7440-21-3	1	0.0057	

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9	Switch Insulation Adopter	PBT	0.007	Glass	65997-17-3	20	0.05	0.247
				Poly(butylene terephthalate)	30965-26-5	65	0.16	
				Antimony Oxide	1309-64-4	4	0.0099	
				Flame Retardant	68928-70-1	10	0.025	
				Additives not to declare		1	0.0025	
10	Rotor/ code disk	PC	0.1	Polycarbonate	25037-45-0	100	3.5	3.53
		Brass C26800	0.05	Copper	7440-50-8	66.5	1.1737	1.765
				Zinc	7440-66-6	33.36	0.5888	
				Lead	7439-92-1	0.09 max	0.0016	
				Iron	7439-89-6	0.05 max	0.0009	
Plating	0.005	Silver	7440-22-4	100	0.18	0.18		
11	Lube	Polysiloxane	0.00056	Polysiloxane	9011-19-2	100	0.015	0.020
			Total weight			2.83256		

This Document was updated on: January 13, 2020

Important remarks:

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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, if any.