

# MATERIAL DECLARATION



Material #	PEC16 Series		
Product Line	Encoder		
Compliance Date	Since Inception		
RoHS Compliant	Yes	MSL	N/A

No.	Construction 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	PC	0.65	Polycarbonate	25037-45-0	100	10.301	10.301
2	Element	PBT	0.90	Glass fiber	65997-17-3	30	4.279	14.263
				Poly(butylene terephthalate)	30965-26-5	65	9.271	
				Antimony Oxide	1309-64-4	5	0.713	
3	Leadframe	Steel	0.675	Carbon	7440-44-0	1	0.119	10.697
				Manganese	7439-96-5	6	0.713	
				Phosphorus	7723-14-0	5	0.594	
				Iron	7439-89-6	87	10.460	
				Silicon	7440-21-3	1	0.119	
	Plating	0.075	Tin	7440-31-5	99.98226	1.187790	1.189	
			Copper	7440-50-8	0.0004	0.000005		
			Antimony	7440-36-0	0.0136	0.000162		
			Aluminum	7429-90-5	0.00034	0.000004		
			Iron	7439-89-6	0.0034	0.000040		

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4	Slider	Copper	0.06	Copper	7440-50-8	91.681	0.871	0.951
				Tin	7440-31-5	8.167	0.078	
				Phosphorus	7723-14-0	0.152	0.002	
5	Bushing	Zinc	3.895	Zinc	7440-66-6	94.82	58.529	61.727
				Aluminum	7429-90-5	4.16	2.568	
				Magnesium	7439-95-4	0.1	0.062	
				Copper	7440-50-8	0.9	0.556	
				Silicon	7440-21-3	0.02	0.012	
6	Contact Spring	Copper	0.01905	Copper	7440-50-8	91.681	0.277	0.302
				Tin	7440-31-5	8.167	0.024	
				Phosphorus	7723-14-0	0.152	0.001	
		Plating	0.00095	Silver	7440-22-4	100	0.015	0.015
7	Terminals×3	Copper	0.0285	Copper	7440-50-8	91.681	0.414	0.452
				Tin	7440-31-5	8.167	0.037	
				Phosphorus	7723-14-0	0.152	0.001	
		Plating	0.0015	Silver	7440-22-4	100	0.024	0.024
8	Lube	Polysiloxane	0.005	Polysiloxane	9011-19-2	100	0.079	0.079
		Total weight	6.31					

**This Document was updated on: Nov 8, 2017**

**The weight was measured by model PEC16-4215F-N0024**