


MATERIAL DECLARATION SHEET



Material Number	PEL12S (DC12S24204K024)			
Product Line	ENCODER			
Compliance Date	2010/12/27			
RoHS Compliant	YES	MSL	N/A	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Shaft	PC	0.537	Polycarbonate	25037-45-0	100	20.65	20.65
2	Contact Holder	POM	0.194	Polyoxymethylene	30846-29-8	100	7.46	7.46
3	Slide Contact	t0.12 Phosphor Bronze	0.026	Tin	7440-31-5	8	0.08	1.00
				Phosphorus	7723-14-0	0.2	0.002	
				Copper	7440-50-8	91.8	0.918	
		Ag Plating (0.5~1um)		Silver	07440-22-4	100		
44	Leaf Spring	t0.2 Phosphor Bronze	0.124	Tin	7440-31-5	8	0.381	4.77
				Phosphorus	7723-14-0	0.2	0.009	
				Copper	7440-50-8	91.8	4.378	
5	Insulation Case	PBT	0.290	Polybutylene Terephthalate	26062-94-2	70	7.8	11.15
				Glass Fiber	65997-17-3	28	3.1	
				Additives, not to declare	Trade secret	2	0.2	

MATERIAL DECLARATION



6	Terminal	t0.15 Nickel Silver	0.100	Copper	7440-50-8	54.786	2.107	3.85		
				Nickel	7440-02-0	17.570	0.676			
				Zinc	7440-66-6	27.260	1.048			
				Lead	7439-92-1	0.001	0.00004			
				Tin	7440-31-5	0.002	0.00008			
				Iron	7439-89-6	0.028	0.00108			
				Manganese	7439-96-5	0.350	0.01346			
				Silicon	14464-46-1	0.002	0.00008			
		Ag Plating (0.5~1um)			Silver	7440-22-4	100			
7	Spacer	PBT	0.045	Polybutylene Terephthalate	26062-94-2	70	1.2	1.73		
				Glass Fiber	65997-17-3	28	0.5			
				Additives	Trade secret	2	0.0			
8	Light Emission Diode	PCB	0.012	Glass fiber	65997-17-3	35	0.2	0.46		
				Epoxy Resin	9003-36-5	20	0.1			
				Titanium dioxide	13463-67-7	10	0.0			
				Copper	7440-50-8	20	0.1			
				Nickel	7440-02-0	10	0.0			
				Silver	7440-22-4	5	0.0			
				Silver paste		Silver	7440-22-4		100	0.5
				Epoxy Resin	Bisphenol A diglycidyl ether epoxy	25068-38-6	50		0.2	
		TetraHydrophthalic acid anhydride			85-43-8	50	0.2			
		Dice		Gallium phosphide	12063-98-8	100	0.5			
		Gold wire		Gold	7440-57-5	100	0.5			

MATERIAL DECLARATION



9	LED Insulation Case	PBT	0.247	Polybutylene Terephthalate	26062-94-2	70	6.7	9.50
				Glass Fiber	65997-17-3	28	2.7	
				Additives, not to declare	Trade secret	2	0.2	
10	LED Terminal	t0.25 Brass	0.13	Copper	7440-50-8	65.685	3.2842	5.00
				Iron	7439-89-6	0.035	0.0018	
				Lead	7439-92-1	0.002	0.0001	
				Zinc	7440-66-6	34.278	1.7139	
		Ag Plating (0.5~1um)		Silver	7440-22-4	100		
11	Attaching Plate	t0.4 Steel	0.895	Carbon	7440-44-0	0.050	0.0	34.42
				Manganese	7439-96-5	0.240	0.1	
				Phosphorus	7723-14-0	0.016	0.0	
				Sulfur	7704-34-9	0.012	0.0	
				Silicon	14464-46-1	0.010	0.0	
				Aluminum	7429-90-5	0.045	0.0	
				Iron	7439-89-6	99.627	34.3	
		Sn Plating (5~8um)		Tin	7440-31-5	100	34.4	
		Total weight (g)	2.6					

This Document was updated on: May 5, 2020

Important remarks:

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