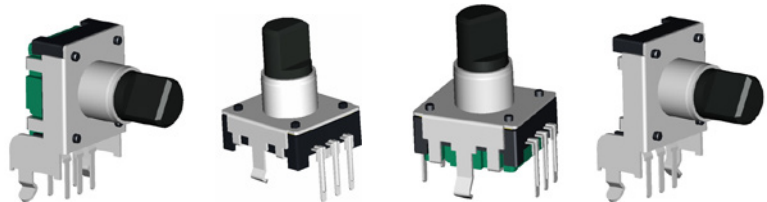


# MATERIAL DECLARATION SHEET

**BOURNS®**

Material Number	PEC12R			
Product Line	Encoders			
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	Bracket 支架	SPCC-SB	0.923	Carbon	7440-44-0	1	0.355	35.5
				Manganese	7439-96-5	5	1.775	
				Phosphorus	7723-14-0	5	1.775	
				Iron	7439-89-6	88	31.24	
				Silicon	7440-21-3	1	0.355	
		Plating	0.01	Tin	7440-31-5	99.9	0.384	0.385
				Copper	7440-50-8	0.0004	0.000015	
				Antimony	1309-64-4	0.0136	0.000052	
				Aluminum	1344-28-1	0.00034	0.000013	
2	Shaft 轴心	PC	0.425	Polycarbonate	25037-45-0	100	16.35	16.35
		Toner	0.0005	Titanium dioxide	13463-67-7	64.3	0.0123	0.0192
				Pigment Yellow 74	6358-31-2	7.1	0.0014	
3	Rotor 回转座	PC	0.108	Polycarbonate	25037-45-0	100	4.15	4.15
				Toner	0.0005	Titanium dioxide	13463-67-7	
		Pigment Yellow 74	6358-31-2			7.1	0.0014	
		Pigment Red 180	12769-00-5			28.6	0.0055	

# MATERIAL DECLARATION SHEET

**BOURNS®**

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. [%]
4	Switch Insulation Adopter 绝缘片	PBT	0.034	Glass	65997-17-3	20	0.26	1.31
				Poly(butylene terephthalate)	30965-26-5	65	0.85	
				Antimony Oxide	1309-64-4	4	0.052	
				Flame Retardant	68928-70-1	10	0.13	
				Additives	-	1	0.013	
		Toner	0.0005	Titanium dioxide	13463-67-7	64.3	0.0123	0.0192
				Pigment Yellow 74	6358-31-2	7.1	0.0014	
Pigment Red 180	12769-00-5			28.6	0.0055			
5	Detent Spring 弹片	Bronze C5210 (Without plating)	0.127	Copper	7440-50-8	91.68	4.451	4.855
				Tin	7440-31-5	8.167	0.397	
				Phosphorus	7723-14-0	0.153	0.007	
6	Switch Dome 锅仔片	Bronze C5210	0.05	Copper	7440-50-8	91.68	1.762	1.922
				Tin	7440-31-5	8.167	0.157	
				Phosphorus	7723-14-0	0.153	0.003	
		Plating	0.005	Ag	7440-22-4	100	0.19	0.19
7	Wipers 刷子	Copper C7701	0.0258	Copper	7440-50-8	62	0.62	0.99
				Nickel	7440-02-0	19.15	0.19	
				Manganese	7439-96-5	0.5	0.005	
				Phosphorus	7723-14-0	0.1	0.00099	
				Zinc	7440-66-6	18	0.18	
				Iron	7439-89-6	0.25	0.0024	

# MATERIAL DECLARATION SHEET

**BOURNS®**

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. [%]
8	Switch Element & Terminales 开关本体	PBT	0.185	Glass	65997-17-3	20	1.423	7.111
				Poly(butylene terephthalate)	30965-26-5	65	4.625	
				Antimony Oxide	1309-64-4	4	0.28	
				Flame Retardant	68928-70-1	10	0.712	
				Additives, not to declare	-	1	0.071	
		Toner	0.0005	Titanium dioxide	13463-67-7	64.3	0.0123	0.0192
				Pigment Yellow 74	6358-31-2	7.1	0.0014	
				Pigment Red 180	12769-00-5	28.6	0.0055	
		Brass C2680	0.205	Copper	7440-50-8	66.5	5.2269	7.86
				Zinc	7440-66-6	33.36	2.6221	
				Lead	7439-92-1	0.09	0.0071	
				Iron	7439-86-9	0.05	0.0039	
		Plating	0.02	Silver	7440-22-4	100	0.77	0.77
9	Wiper Element & Terminales 本体	PBT	0.315	Glass	65997-17-3	20	2.423	12.07
				Poly(butylene terephthalate)	30965-26-5	65	7.875	
				Antimony Oxide	1309-64-4	4	0.485	
				Flame Retardant	68928-70-1	10	1.215	
				Additives, not to declare	-	1	0.121	
		Toner	0.0005	Titanium dioxide	13463-67-7	64.3	0.0123	0.0192
				Pigment Yellow 74	6358-31-2	7.1	0.0014	
				Pigment Red 180	12769-00-5	28.6	0.0055	
		Brass C2680	0.155	Copper	7440-50-8	66.5	3.9514	5.942
				Zinc	7440-66-6	33.36	1.9823	
				Lead	7439-92-1	0.09	0.0053	
				Iron	7439-86-9	0.05	0.0030	
		Plating	0.015	Silver	7440-22-4	100	0.58	0.58
10	Lube	Polysiloxane	0.00056	Polysiloxane	9011-19-2	100	0.015	0.015
		Total weight	2.6					

# MATERIAL DECLARATION SHEET

---

**BOURNS<sup>®</sup>**

This Document was updated on: 2019/08/07

## Important remarks:

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