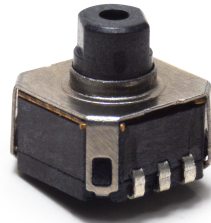


MATERIAL DECLARATION SHEET

BOURNS®

Material Number	PEC06			
Product Line	Encoders			
Compliance Date	Since Inception			
RoHS Compliant	Yes	MSL	0	

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	SUS 301	0.0663	Carbon	7440-44-0	0.06	0.015912	26.52
				Manganese	7439-96-5	2.2	0.58344	
				Silicon	7440-21-3	0.27	0.071604	
				Phosphorus	7723-14-0	0.03	0.007956	
				Sulfur	7704-34-9	0.31	0.082212	
				Chromium	7440-47-3	17.2	4.56144	
				Nickel	7440-02-0	8.2	2.17464	
				Copper	7440-50-8	2.2	0.58344	
		Plating	0.0007	Iron	7439-89-6	69.53	18.439356	0.28
				Tin	7440-31-5	99.986	0.2799608	
				Copper	7440-50-8	0.0004	0.00000112	
				Antimony	1309-64-4	0.0136	0.00003808	
2	Shaft	LCP	0.035	Liquid Crystal Polymer	70679-92-4	60	8.4	14
				Glass fiber	65991-17-3	40	5.6	
3	Wiper Element & Terminales	Bronze C5210	0.026	Copper	7440-50-8	91.45	9.5108	10.4
				Tin	7440-31-5	8.45	0.8788	
				Phosphorus	7723-14-0	0.1	0.0104	
		Plating	0.0004	Silver	7440-22-4	100	0.16	0.16

MATERIAL DECLARATION SHEET



		LCP	0.023	Liquid Crystal Polymer	70679-92-4	60	5.52	9.2
				Glass fiber	65991-17-3	40	3.68	
4	Detent Spring	Bronze C5210 (Without plating)	0.026	Copper	7440-50-8	91.45	9.5108	10.4
				Tin	7440-31-5	8.45	0.8788	
				Phosphorus	7723-14-0	0.1	0.0104	
5	Rotor	Bronze C5210	0.013	Copper	7440-50-8	91.45	4.7554	5.20
				Tin	7440-31-5	8.45	0.4394	
				Phosphorus	7723-14-0	0.1	0.0052	
		Plating	0.0003	Silver	7440-22-4	100	0.12	0.120
		LCP	0.016	Liquid Crystal Polymer	70679-92-4	60	3.84	6.4
				Glass fiber	65991-17-3	40	2.56	
6	Switch Dome	Bronze C5210	0.0053	Copper	7440-50-8	91.45	1.93874	2.12
				Tin	7440-31-5	8.45	0.17914	
				Phosphorus	7723-14-0	0.1	0.00212	
		Plating	0.0001	Silver	7440-22-4	100	0.04	0.04
7	Rear Cover	LCP	0.035	Liquid Crystal Polymer	70679-92-4	60	8.4	14.0
				Glass fiber	65991-17-3	40	5.6	
8	Lube	Polysiloxane	0.0029	Polysiloxane	9011-19-2	100	1.16	1.16
		Total weight	0.25					

This Document was updated on: **2024/09/1**

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
 - a. **"Compliance Date"** is not the date supplier submits the MDS, but when the product was first compliant with RoHS.
 - b. **"This Document was updated on:"** is where we indicate when supplier submits the MDS. All previous MDS must be archived for traceability in the future.
 - c. Material weights for components less than 100mg (most Semiconductor products) should be listed in milligrams. This avoids all those zeros and round off issues.