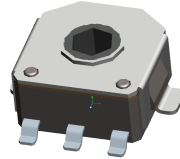


MATERIAL DECLARATION SHEET

BOURNS®

Material Number	PEC05			
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	SUS 301	0.0771	carbon	7440-44-0	0.15	0.055071	36.71
				manganese	7439-96-5	2	0.734286	
				phosphorus	7723-14-0	0.045	0.016521	
				sulfur	7704-34-9	0.03	0.011014	
				silicon	7440-21-3	1	0.367143	
				chromium	7440-47-3	17	6.241429	
				nickel	7440-02-0	7	2.570000	
				iron	7439-89-6	72.775	26.718821	
		Plating	0.0008	Tin	7440-31-5	99.986	0.3799468	0.38
				Copper	7440-50-8	0.0004	0.00000152	
				Antimony	1309-64-4	0.0136	0.00005168	
2	Wiper Element & Terminales	Bronze C5210	0.046	Copper	7440-50-8	91.45	20.02755	21.9
				Tin	7440-31-5	8.45	1.85055	
				Phosphorus	7723-14-0	0.1	0.0219	
		Plating	0.0006	Ag	7440-22-4	100	0.29	0.29
		LCP	0.0215	Liquid Crystal Polymer	70679-92-4	60	6.144	10.24
				Glass fiber	65991-17-3	40	4.096	

MATERIAL DECLARATION SHEET



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. [%]
3	Detent Spring	Bronze C5210 (Without plating)	0.022	Copper	7440-50-8	91.45	9.58396	10.48
				Tin	7440-31-5	8.45	0.88556	
				Phosphorus	7723-14-0	0.1	0.01048	
4	Rotor	LCP	0.018	Liquid Crystal Polymer	70679-92-4	60	5.142	8.57
				Glass fiber	65991-17-3	40	3.428	
5	Brush	Bronze C5210 (Without plating)	0.023	Copper	7440-50-8	91.45	10.013775	10.95
				Tin	7440-31-5	8.45	0.925275	
				Phosphorus	7723-14-0	0.1	0.01095	
6	Lube	Polysiloxane	0.001	Polysiloxane	9011-19-2	100	0.48	0.48
		Total weight	0.21					

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.