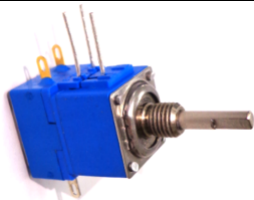


MATERIAL DECLARATION SHEET

BOURNS®

Material Number	85/86C2X-EXX-AXX/R51L			
Product Line	Panel Control			
Compliance Date	January 02, 2006			
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	Hex Nut	Brass C260	0.0819	Copper	7440-50-8	70.00	0.427	0.61
				Zinc	7440-66-6	30.00	0.183	
		Plating	0.0010	Nickel	7440-02-0	100	0.007	0.01
2	Lock Washer	Carbon Steel C1050	0.1690	Carbon	7440-44-0	0.5	0.006	1.26
				Iron	7439-89-6	98.7	1.242	
				Manganese	7439-96-5	0.75	0.009	
				Phosphorus	7723-14-0	0.02	0.0003	
				Sulphur	7704-34-9	0.03	0.0004	
		Plating	0.0001	Nickel	7440-02-0	100	0.001	0.001
3	Bushing	Aluminum 2011	0.7220	Aluminum (Metal)	7429-90-5	92.93	5.00	5.38
				Bismuth	7440-69-9	0.4	0.02	
				Copper	7440-50-8	5.5	0.30	
				Iron	7439-89-6	0.345	0.02	
				Lead	7439-92-1	0.4	0.02	
				Silicon	7440-21-3	0.2	0.01	
				Zinc (Metal)	7440-66-6	0.15	0.01	
				Misc, Not to Declare	Proprietary	0.075	0.004	
	Plating		0.0010	Nickel	7440-02-0	100	0.007	0.007

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4	Body Primary	Resin	1.8600	PBT	26062-94-2	53.7	7.44	13.85
				Glass Fiber	65997-17-3	30	4.16	
				Brominated Epoxy Resin	68928-70-1	10.5	1.45	
				Antimony Trioxide	1309-64-4	3	0.42	
				Pigment Blue 15	147-14-8	0.8	0.11	
				Further Additives, Not to Declare	Proprietary	2	0.28	
5	Shaft	Brass 360	1.5000	Copper	7440-50-8	61.5	6.87	11.17
				Iron	7439-89-6	0.2	0.02	
				Lead	7439-92-1	3	0.34	
				Zinc	7440-66-6	35	3.91	
				Misc, Not to Declare	Proprietary	0.3	0.03	
		Plating	0.0010	Nickel	7440-02-0	100	0.007	0.007
6	Rotor	Resin	0.5300	PBT	26062-94-2	53.7	2.12	3.95
				Glass Fiber	65997-17-3	30	1.18	
				Brominated Epoxy Resin	68928-70-1	10.5	0.41	
				Antimony Trioxide	1309-64-4	3	0.12	
				Pigment Blue 15	147-14-8	0.8	0.03	
				Further Additives, Not to Declare	Proprietary	2	0.08	
7	Contact Spring	Strip Laminated	0.005	Copper	7440-50-8	70	0.0261	0.04
				Zinc	7440-66-6	30	0.0112	
		Spacer Strip	0.004	Nickel	7440-02-0	18	0.005	0.03
				Copper	7440-50-8	55	0.016	
				Zinc	7440-66-6	27	0.008	
		Solder Inlay	0.0015	Tin	7440-31-5	94.2	0.011	0.01
				Silver	7440-22-4	5	0.0006	
				Bismuth	7440-69-9	0.3	0.00003	
				Impurities	Proprietary	0.5	0.00006	
		Wire	0.013	Copper	7440-50-8	65	0.06	0.10
				Nickel	7440-02-0	18	0.02	

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				Zinc	7440-66-6	17	0.02	
8	Rotor Driver	Zinc Alloy 3	1.0130	Aluminum (Metal)	7429-90-5	4	0.30	7.55
				Cadmium	7440-43-9	0.002	0.0002	
				Copper	7440-50-8	0.1	0.01	
				Iron	7439-89-6	0.05	0.004	
				Magnesium (Metal)	7439-95-4	0.04	0.003	
				Lead	7439-92-1	0.003	0.0002	
				Tin	7440-31-5	0.002	0.0002	
				Zinc (Metal)	7440-66-6	95.7	7.22	
				Misc, Not to Declare	Proprietary	0.1	0.01	
9	Substrate	Ceramic	1.0700	Aluminum Oxide	1344-28-1	96	7.65	7.97
				Silicon Oxide	7631-86-9	2	0.16	
				Magnesium Oxide	1309-48-4	1	0.08	
				Calcium Oxide	1305-78-8	1	0.08	
10	Conductor Ink	Ink	0.0050	Silver	7440-22-4	75	0.0279	0.04
				Palladium	7440-05-3	11.5	0.0043	
				Glass w/o Declarables	65997-17-3	6	0.0022	
				Lead in Glass	7439-92-1	0.5	0.0002	
				Dibismuth-Trioxide	1304-76-3	3.2	0.0012	
				Nickel-Monoxide	1313-99-1	0.8	0.0003	
				Zinc Oxide	1314-13-2	0.8	0.0003	
				Ceramic w/o Declarable Substances	66402-68-4	2.1	0.0008	
11	Resistive Ink	Ink	0.0009	Copper	7440-50-8	0.1	0.00004	0.007
				Formaldehyde, Polymer	28470-78-2	31.0	0.002	
				Barium Sulfate	7727-43-7	16.0	0.0011	
				Carbon Black	1333-86-4	9.0	0.001	
				DAIP Resin	1087-21-4	19.0	0.001	
				Phenolic Resin	9039-25-2	18.0	0.0012	
				Graphite	7782-42-5	5.0	0.00034	

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				Polydimethylsiloxane	63148-62-9	2.0	0.0001	
12	Resistive Ink	Ink	0.0171	Ruthenium Oxide	12036-10-1	15	0.019	0.13
				Silver	7440-22-4	5	0.006	
				Palladium	7440-05-3	5	0.006	
				Lead in Glass	7439-92-1	43	0.055	
				Aluminum	7429-90-5	5	0.006	
				Bismuth Trioxide	1304-76-3	13	0.017	
				Digadolinium Trioxide	12064-62-9	14	0.018	
13	Terminal Wire 3X	Copper	0.2960	Copper	7440-50-8	100	2.20	2.20
		Plating	0.0030	Tin	7440-31-5	100	0.022	0.022
14	Body Element	Resin	0.5670	PBT	26062-94-2	53.7	2.27	4.22
				Glass Fiber	65997-17-3	30	1.27	
				Brominated Epoxy Resin	68928-70-1	10.5	0.44	
				Antimony Trioxide	1309-64-4	3	0.13	
				Pigment Blue 15	147-14-8	0.8	0.03	
				Further Additives, Not to Declare	Proprietary	2	0.08	
15	Switch Body	Resin	1.4890	Diallyl Phthalate Polymer	25053-15-0	37	4.10	11.09
				Polyester Resin	68604-67-1	1	0.11	
				Calcium Silicate	13983-17-0	7.7	0.85	
				Amorphous Silica	61790-53-2	1.5	0.17	
				Glass Fiber	65997-17-3	41	4.55	
				Alumina Trihydrate	21645-51-2	2.6	0.29	
				Calcium Stearate	1592-23-0	1	0.11	
				Antimony Trioxide	1309-64-4	3.1	0.34	
				Bis(Tetrabromophthalimido)Ethane	32588-76-4	5.1	0.57	
16	Rotor Inner	Resin	0.5770	PBT	26062-94-2	54.25	2.33	4.30
				GF-Fiber ISO 1043-2	65997-17-3	30	1.29	
				Halogenated Compound ISO 1043-4, Not Declarable	Proprietary	9	0.39	
				Antimonytrioxide	1309-64-4	3.5	0.15	

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				Carbon Black	1333-86-4	1.25	0.05	
				Additives, Not to Declare	Proprietary	2	0.09	
17	Blade Fixed X2	Strip Laminated Brass 260	0.009	Copper	7440-50-8	70	0.047	0.07
				Zinc	7440-66-6	30	0.020	
		Solder Inlay	0.00100	Silver	7440-22-4	100	0.007	0.007
		Under Plating	0.001	Nickel	7440-02-0	100	0.007	0.007
		Finish Plating	0.001	Gold	7440-57-5	100	0.007	0.007
18	Rotor Outer	Resin	0.2440	PBT	26062-94-2	53.7	0.98	1.82
				Glass Fiber	65997-17-3	30	0.55	
				Brominated Epoxy Resin	68928-70-1	10.5	0.19	
				Antimony Trioxide	1309-64-4	3	0.05	
				Pigment Blue 15	147-14-8	0.8	0.01	
				Further Additives, Not to Declare	Proprietary	2	0.04	
19	Spring Detent	BeCu CA-172 Alloy 25	0.0430	Beryllium	7440-41-7	1.9	0.006	0.32
				Nickel	7440-02-0	0.3	0.001	
				Cobalt	7440-48-4	0.3	0.001	
				Iron	7439-89-6	0.3	0.001	
				Aluminum	7429-90-5	0.1	0.0003	
				Silicon	7440-21-3	0.1	0.0003	
				Copper	7440-50-8	96.7	0.310	
				Silver	7440-22-4	0.05	0.0002	
				Misc, Not to Declare	Proprietary	0.25	0.001	
20	Spring Helper	BeCu CA-172 Alloy 25	0.0190	Beryllium	7440-41-7	1.9	0.003	0.14
				Nickel	7440-02-0	0.3	0.0004	
				Cobalt	7440-48-4	0.3	0.0004	
				Iron	7439-89-6	0.3	0.0004	
				Aluminum	7429-90-5	0.1	0.0001	
				Silicon	7440-21-3	0.1	0.0001	
				Copper	7440-50-8	96.7	0.14	

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				Silver	7440-22-4	0.05	0.00007	
				Misc, Not to Declare	Proprietary	0.25	0.0004	
21	Moving Contact X2	Silver	0.01400	Silver	7440-22-4	100	0.104	0.10
		Under Plating	0.00010	Nickel	7440-02-0	100	0.0007	0.0007
		Finish Plating	0.00010	Gold	7440-57-5	100	0.0007	0.0007
22	Spring Moving Contact X2	BeCu CA-172 Alloy 25	0.1600	Beryllium	7440-41-7	1.9	0.02	1.19
				Nickel	7440-02-0	0.3	0.004	
				Cobalt	7440-48-4	0.3	0.004	
				Iron	7439-89-6	0.3	0.004	
				Aluminum	7429-90-5	0.1	0.001	
				Silicon	7440-21-3	0.1	0.001	
				Copper	7440-50-8	96.7	1.2	
				Silver	7440-22-4	0.05	0.0006	
				Misc, Not to Declare	Proprietary	0.25	0.003	
		Under Plating	0.00020	Nickel	7440-02-0	100	0.001	0.001
		Finish Plating	0.00020	Tin	Proprietary	100	0.001	0.001
23	Washer	Teflon	0.0160	Polytetrafluoroethylene	9002-84-0	100	0.12	0.12
24	Spring Washer	Beryllium Copper	0.031	Beryllium	7440-41-7	1.90	0.0044	0.23
				Nickel	7440-02-0	0.30	0.0007	
				Cobalt	7440-48-4	0.30	0.0007	
				Iron	7439-89-6	0.30	0.0007	
				Aluminum	7429-90-5	0.10	0.0002	
				Silicon	7440-21-3	0.10	0.0002	
				Copper	7440-50-8	96.70	0.2	
				Silver	7440-22-4	0.05	0.0001	
				Misc, Not to Declare	Proprietary	0.25	0.0006	
25	Front Cover	Stainless Steel 304	0.694	Carbon	7440-44-0	0.08	0.004	5.17
				Manganese	7439-96-5	2	0.1034	
				Phosphorus	7723-14-0	0.045	0.0023	
				Sulfur	7704-34-9	0.03	0.0016	

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				Silicon	7440-21-3	0.75	0.0388	
				Chromium	7440-47-3	18	0.9305	
				Nickel	7440-02-0	8	0.4135	
				Iron	7439-89-6	71.095	3.6751	
				Aluminum	7429-90-5	95.01	3.312	
26	Rivet X4	Aluminum Wire 2117-H-15	0.468	Copper	7440-50-8	2.6	0.091	
				Silicon	7440-21-3	0.8	0.028	
				Chromium	7440-47-3	0.09	0.003	
				Manganese	7439-96-5	0.2	0.007	
				Zinc	7440-66-6	0.25	0.009	
				Iron	7439-89-6	0.7	0.024	
				Magnesium	7439-95-4	0.35	0.012	
				PBT	26062-94-2	53.7	3.15	
				Glass Fiber	65997-17-3	30	1.76	
27	Cover Molded	Resin	0.7880	Brominated Epoxy Resin	68928-70-1	10.5	0.62	
				Antimony Trioxide	1309-64-4	3	0.18	
				Pigment Blue 15	147-14-8	0.8	0.05	
				Further Additives, Not to Declare	Proprietary	2	0.12	
				Carbon	7440-44-0	0.08	0.006	
				Manganese	7439-96-5	2	0.141	
				Phosphorus	7723-14-0	0.045	0.003	
				Sulfur	7704-34-9	0.03	0.002	
28	Rear Cover	Stainless Steel 304	0.949	Silicon	7440-21-3	0.75	0.053	
				Chromium	7440-47-3	18	1.272	
				Nickel	7440-02-0	8	0.565	
				Iron	7439-89-6	71.095	5.025	
29	Adhesive	Adhesive	0.0001	2-Propenoic Acid, 2-Methyl-, 3,3,5-Trimethylcyclohexyl Ester	7779-31-9	18.30	0.0001	0.001

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BOURNS®

				2-Hydroxyethyl Methacrylate	868-77-9	24.60	0.0002	
				2'-Phenylacetohydrazid	114-83-0	1.10	0.00001	
				Proprietary	Proprietary	56.00	0.0004	
30	Lube	Lube	0.0016	Decanoic Acid, Mixed Esters with Heptanoic Acid, Octanoic Acid, Trimethylolpropane	68130-53-0	54.40	0.0065	0.012
				Lithium 12-Hydroxystearate	7620-77-1	5.70	0.0007	
				Isohexadecyl-Isooctadecanoate	52006-45-8	33.70	0.0040	
				Polyisobutylene	9003-27-4	6.20	0.0007	
31	Lube	Lube	0.0288	Siloxanes and Silicones, Di-Me, Di-Ph	68083-14-7	68.90	0.148	0.21
				Lithium stearate	4485-12-5	25.40	0.054	
				Silane, Dichlorodimethyl-Reaction Products with Silica	68611-44-9	4.80	0.010	
				Diphenylamine	122-39-4	0.90	0.002	
32	Lube	Lube	0.0290	Poly(Oxy (Methyl-1,2-Ethanediy)), Alpha-Butyl-Omega-Hydroxy	9003-13-8	97.5	0.21	0.216
				Benzenamine, N-Phenyl-, Reaction Products with 2,4,4-Trimethylpentene	68411-46-1	0.8	0.002	
				Quartz (SiO2)	14808-60-7	1.5	0.003	
				N, N-Bis(2-Ethylhexyl)-4-Methyl- 1H-Benzotriazole-1-Methylamine	80584-90-3	0.1	0.0002	
				N, N-Bis(2-Ethylhexyl)-5-Methyl-1H-Benzotriazole-1-Methylamine	80595-74-0	0.1	0.0002	
			Total weight	13.4256				

MATERIAL DECLARATION SHEET



This Document was updated on: **02/09/2026**

Important remarks:

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