

MATERIAL DECLARATION SHEET

BOURNS®

Material Number	81/ 82A1X-XXX-AXXL			
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	1.250	Copper	7440-50-8	70.00	5.275	7.54
				Zinc	7440-66-6	30.00	2.261	
		Plating	0.090	Nickel	7440-02-0	100	0.543	0.54
2	Lock washer	Carbon Steel C1050	0.3100	Carbon	7440-44-0	0.5	0.009	1.87
				Iron	7439-89-6	98.7	1.844	
				Manganese	7439-96-5	0.75	0.014	
				Phosphorus	7723-14-0	0.02	0.0004	
				Sulphur	7704-34-9	0.03	0.0006	
		Plating	0.0001	Nickel	7440-02-0	100	0.001	0.001
3	Bushing	Aluminum 2011	1.1470	Aluminum (Metal)	7429-90-5	92.93	6.43	6.91
				Bismuth	7440-69-9	0.4	0.03	
				Copper	7440-50-8	5.5	0.38	
				Iron	7439-89-6	0.345	0.02	
				Lead	7439-92-1	0.4	0.03	
				Silicon	7440-21-3	0.2	0.01	
				Zinc (Metal)	7440-66-6	0.15	0.01	
				Misc, Not to Declare	Proprietary	0.075	0.01	
		Plating	0.0010	Nickel	7440-02-0	100	0.01	0.01

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4	Body Primary	Resin	1.8600	PBT	26062-94-2	53.7	6.02	11.21
				Glass Fiber	65997-17-3	30	3.36	
				Brominated Epoxy Resin	68928-70-1	10.5	1.18	
				Antimony Trioxide	1309-64-4	3	0.34	
				Pigment Blue 15	147-14-8	0.8	0.09	
				Further Additives, Not to Declare	Proprietary	2	0.22	
5	Shaft	Brass 360	6.4300	Copper	7440-50-8	61.5	23.84	38.76
				Iron	7439-89-6	0.2	0.08	
				Lead	7439-92-1	3	1.16	
				Zinc	7440-66-6	35	13.57	
				Misc, Not to Declare	Proprietary	0.3	0.12	
		Plating	0.0010	Nickel	7440-02-0	100	0.01	0.01
6	Rotor	Resin	0.5300	PBT	26062-94-2	53.7	1.72	3.19
				Glass Fiber	65997-17-3	30	0.96	
				Brominated Epoxy Resin	68928-70-1	10.5	0.34	
				Antimony Trioxide	1309-64-4	3	0.10	
				Pigment Blue 15	147-14-8	0.8	0.03	
				Further Additives, Not to Declare	Proprietary	2	0.06	
7	Contact Spring	Strip Laminated	0.005	Copper	7440-50-8	70	0.021	0.03
				Zinc	7440-66-6	30	0.009	
		Spacer Strip	0.004	Nickel	7440-02-0	18	0.004	0.02
				Copper	7440-50-8	55	0.013	
				Zinc	7440-66-6	27	0.007	
		Solder Inlay	0.0015	Tin	7440-31-5	94.2	0.009	0.01
				Silver	7440-22-4	5	0.0005	
				Bismuth	7440-69-9	0.3	0.00003	
				Impurities	Proprietary	0.5	0.0000	
		Wire	0.013	Copper	7440-50-8	65	0.05	0.08

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				Nickel	7440-02-0	18	0.01	
				Zinc	7440-66-6	17	0.01	
8	Rotor Driver	Zinc Alloy 3	1.0130	Aluminum (metal)	7429-90-5	4	0.24	6.11
				Cadmium	7440-43-9	0.002	0.0001	
				Copper	7440-50-8	0.1	0.01	
				Iron	7439-89-6	0.05	0.003	
				Magnesium (metal)	7439-95-4	0.04	0.002	
				Lead	7439-92-1	0.003	0.0002	
				Tin	7440-31-5	0.002	0.0001	
				Zinc (metal)	7440-66-6	95.7	5.84	
				Misc, Not to Declare	Proprietary	0.1	0.01	
9	Substrate	Ceramic	0.9780	Aluminum Oxide	1344-28-1	96	5.66	5.90
				Silicon Oxide	7631-86-9	2	0.12	
				Magnesium Oxide	1309-48-4	1	0.06	
				Calcium Oxide	1305-78-8	1	0.06	
10	Ink	Ink	0.0050	Silver	7440-22-4	75	0.0226	0.03
				Palladium	7440-05-3	11.5	0.0035	
				Glass w/o Declarables	65997-17-3	6	0.0018	
				Lead in Glass	7439-92-1	0.5	0.0002	
				Dibismuth-Trioxide	1304-76-3	3.2	0.0010	
				Nickel-Monoxide	1313-99-1	0.8	0.0002	
				Zinc Oxide	1314-13-2	0.8	0.0002	
				Ceramic w/o Declarable Substances	66402-68-4	2.1	0.0006	
				Copper	7440-50-8	0.1	0.00003	
11	Ink	Ink	0.0009	Ruthenium Oxide	12036-10-1	12.1	0.001	0.01
				Silver	7440-22-4	10.1	0.001	
				Palladium	7440-05-3	12.1	0.001	
				Lead in Glass	7439-92-1	36.3	0.002	
				Aluminum	7429-90-5	3.1	0.0002	

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				Calcium Oxide	1305-78-8	1.1	0.0001	
				Bismuth Trioxide	1304-76-3	11.1	0.001	
				Digadolinium Trioxide	12064-62-9	14.1	0.001	
12	Ink	Ink	0.0171	Ruthenium Oxide	12036-10-1	15	0.015	0.10
				Silver	7440-22-4	5	0.005	
				Palladium	7440-05-3	5	0.005	
				Lead in Glass	7439-92-1	43	0.044	
				Aluminum	7429-90-5	5	0.005	
				Bismuth Trioxide	1304-76-3	13	0.013	
				Digadolinium Trioxide	12064-62-9	14	0.014	
13	Terminal Wire 3X	Copper	0.2960	Copper	7440-50-8	100	1.78	1.78
		Plating	0.0030	Tin	7440-31-5	100	0.0181	0.0181
14	Body	Resin	0.5670	PBT	26062-94-2	53.7	1.84	3.42
				Glass Fiber	65997-17-3	30	1.03	
				Brominated Epoxy Resin	68928-70-1	10.5	0.36	
				Antimony Trioxide	1309-64-4	3	0.10	
				Pigment Blue 15	147-14-8	0.8	0.03	
				Further Additives, Not to Declare	Proprietary	2	0.07	
15	Washer	Teflon	0.0160	Polytetrafluoroethylene	9002-84-0	100	0.10	0.10
16	Spring Washer	Beryllium Copper	0.031	Beryllium	7440-41-7	1.90	0.0036	0.19
				Nickel	7440-02-0	0.30	0.0006	
				Cobalt	7440-48-4	0.30	0.0006	
				Iron	7439-89-6	0.30	0.0006	
				Aluminum	7429-90-5	0.10	0.0002	
				Silicon	7440-21-3	0.10	0.0002	
				Copper	7440-50-8	96.70	0.1807	
				Silver	7440-22-4	0.05	0.0001	
				Misc, Not to Declare	Proprietary	0.25	0.0005	

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17	Front Cover	Stainless Steel 304	0.694	Carbon	7440-44-0	0.08	0.003	4.18
				Manganese	7439-96-5	2	0.0837	
				Phosphorus	7723-14-0	0.045	0.0019	
				Sulfur	7704-34-9	0.03	0.0013	
				Silicon	7440-21-3	0.75	0.0314	
				Chromium	7440-47-3	18	0.7530	
				Nickel	7440-02-0	8	0.3347	
				Iron	7439-89-6	71.095	2.9742	
18	Rivet X4	Aluminum Wire 2117-H-15	0.346	Aluminum	7429-90-5	95.01	1.982	2.09
				Copper	7440-50-8	2.6	0.054	
				Silicon	7440-21-3	0.8	0.017	
				Chromium	7440-47-3	0.09	0.002	
				Manganese	7439-96-5	0.2	0.004	
				Zinc	7440-66-6	0.25	0.005	
				Iron	7439-89-6	0.7	0.015	
				Magnesium	7439-95-4	0.35	0.007	
19	Rear Cover	Stainless Steel 304	0.949	Carbon	7440-44-0	0.08	0.005	5.72
				Manganese	7439-96-5	2	0.114	
				Phosphorus	7723-14-0	0.045	0.003	
				Sulfur	7704-34-9	0.03	0.002	
				Silicon	7440-21-3	0.75	0.043	
				Chromium	7440-47-3	18	1.030	
				Nickel	7440-02-0	8	0.458	
				Iron	7439-89-6	71.095	4.067	
20	Adhesive	Adhesive	0.0001	Acrylic Resin	Proprietary	98.8	0.0006	0.0006
				Misc, not to Declare	Proprietary	1.2	0.00001	
21	Lube	Lube	0.0016	Decanoic Acid, Mixed Esters With Heptanoic Acid, Octanoic Acid, Trimethylolpropane	68130-53-0	54.40	0.01	0.010

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				Lithium 12-Hydroxystearate	7620-77-1	5.70	0.001	
				Isohexadecyl-Isooctadecanoate	52006-45-8	33.70	0.003	
				Polyisobutylene	9003-27-4	6.20	0.001	
22	Lube	Lube	0.0288	Siloxanes and Silicones, Di-Me, Di-Ph	68083-14-7	68.90	0.120	0.17
				Lithium Stearate	4485-12-5	25.40	0.044	
				Silane, Dichlorodimethyl-Reaction Products with Silica	68611-44-9	4.80	0.008	
				Diphenylamine	122-39-4	0.90	0.002	
		Total weight	16.5891					

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Important remarks:

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