

MATERIAL DECLARATION SHEET

BOURNS®

Material Number	81/82R1X-RXX-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	2.2230	Copper	7440-50-8	70.00	8.974	12.82
				Zinc	7440-66-6	30.00	3.846	
2	Lock Washer	Carbon Steel S50CM	0.3100	Carbon	7440-44-0	0.5	0.009	1.79
				Chromium	7440-47-3	0.1	0.002	
				Copper	7440-50-8	0.2	0.004	
				Iron	7439-89-6	98.01	1.752	
				Manganese	7439-96-5	0.8	0.014	
				Nickel	7440-02-0	0.1	0.002	
				Phosphorus	7723-14-0	0.02	0.000	
				Sulphur	7704-34-9	0.02	0.000	
				Silicon	7440-21-3	0.25	0.004	
		Plating	0.0051	Nickel	7440-02-0	100	0.029	0.03
3	Bushing	Aluminum 2011	1.3400	Aluminum (Metal)	7429-90-5	92.93	7.18	7.73
				Bismuth	7440-69-9	0.4	0.03	
				Copper	7440-50-8	5.5	0.43	
				Iron	7439-89-6	0.345	0.03	

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				Lead	7439-92-1	0.4	0.03	0.01
				Silicon	7440-21-3	0.2	0.02	
				Zinc (Metal)	7440-66-6	0.15	0.01	
				Misc, Not to Declare	Proprietary	0.075	0.01	
				Nickel	7440-02-0	100	0.01	
		Plating	0.0010					
4	Body	Resin	1.8600	PBT	26062-94-2	53.7	5.76	10.73
				Glass Fiber	65997-17-3	30	3.22	
				Brominated Epoxy Resin	68928-70-1	10.5	1.13	
				Antimony Trioxide	1309-64-4	3	0.32	
				Pigment Blue 15	147-14-8	0.8	0.09	
				Further Additives, Not to Declare	Proprietary	2	0.21	
5	Shaft	Brass 360	6.1000	Copper	7440-50-8	61.5	21.63	35.18
				Iron	7439-89-6	0.2	0.07	
				Lead	7439-92-1	3	1.06	
				Zinc	7440-66-6	35	12.31	
				Misc, Not to Declare	Proprietary	0.3	0.11	
		Plating	0.0010	Nickel	7440-02-0	100	0.01	0.01
6	Rotor	Resin	0.5300	PBT	26062-94-2	53.7	1.64	3.06
				Glass Fiber	65997-17-3	30	0.92	
				Brominated Epoxy Resin	68928-70-1	10.5	0.32	
				Antimony Trioxide	1309-64-4	3	0.09	
				Pigment Blue 15	147-14-8	0.8	0.02	
				Further Additives, Not to Declare	Proprietary	2	0.06	
7	Contact Spring	Strip Laminated	0.005	Copper	7440-50-8	70	0.000	0.03
				Zinc	7440-66-6	30	0.000	
		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	0.006	

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		Solder Inlay	0.0015	Tin	7440-31-5	94.2	0.008	0.01
				Silver	7440-22-4	5	0.0004	
				Bismuth	7440-69-9	0.3	0.00003	
				Impurities	Proprietary	0.5	0.0000	
		Wire	0.013	Copper	7440-50-8	65	0.05	0.07
				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	0.23	5.84
				Cadmium	7440-43-9	0.002	0.00	
				Copper	7440-50-8	0.1	0.01	
				Iron	7439-89-6	0.05	0.00	
				Magnesium (Metal)	7439-95-4	0.04	0.00	
				Lead	7439-92-1	0.003	0.00	
				Tin	7440-31-5	0.002	0.00	
				Zinc (Metal)	7440-66-6	95.7	5.59	
				Misc, Not to Declare	Proprietary	0.1	0.01	
9	Substrate	Ceramic	0.9780	Aluminum Oxide	1344-28-1	96	5.41	5.64
				Silicon Oxide	7631-86-9	2	0.11	
				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	0.0216	0.03
				Palladium	7440-05-3	11.5	0.0033	
				Glass w/o Declarables	65997-17-3	6	0.0017	
				Lead in Glass	7439-92-1	0.5	0.0001	
				Dibismuth-Trioxide	1304-76-3	3.2	0.0009	
				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	0.0000	

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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	0.000	
				Calcium Oxide	1305-78-8	1.1	0.000	
				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	0.042	
				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	1.71	1.71
		Plating	0.0030	Tin	7440-31-5	100	0.0173	0.0173
14	Body Element	Resin	0.5670	PBT	26062-94-2	53.7	1.76	3.27
				Glass Fiber	65997-17-3	30	0.98	
				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	0.07	
15	Washer	Teflon	0.0160	Polytetrafluoroethylene	9002-84-0	100	0.09	0.09
16	Spring Washer	Beryllium Copper	0.031	Beryllium	7440-41-7	1.90	0.0034	0.18
				Nickel	7440-02-0	0.30	0.0005	
				Cobalt	7440-48-4	0.30	0.0005	
				Iron	7439-89-6	0.30	0.0005	

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				Aluminum	7429-90-5	0.10	0.0002	
				Silicon	7440-21-3	0.10	0.0002	
				Copper	7440-50-8	96.70	0.1729	
				Silver	7440-22-4	0.05	0.0001	
				Misc, Not to Declare	Proprietary	0.25	0.0004	
17	Front Cover	Stainless Steel 304	0.694	Carbon	7440-44-0	0.08	0.003	4.00
				Manganese	7439-96-5	2	0.0800	
				Phosphorus	7723-14-0	0.045	0.0018	
				Sulfur	7704-34-9	0.03	0.0012	
				Silicon	7440-21-3	0.75	0.0300	
				Chromium	7440-47-3	18	0.7204	
				Nickel	7440-02-0	8	0.3202	
				Iron	7439-89-6	71.095	2.8454	
18	Rivet X4	Aluminum Wire	0.346	Aluminum	7429-90-5	95.01	1.896	2.00
				Copper	7440-50-8	2.6	0.052	
				Silicon	7440-21-3	0.8	0.016	
				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	0.014	
				Magnesium	7439-95-4	0.35	0.007	
19	Rear Cover	Stainless Steel 304	0.949	Carbon	7440-44-0	0.08	0.004	5.47
				Manganese	7439-96-5	2	0.109	
				Phosphorus	7723-14-0	0.045	0.002	
				Sulfur	7704-34-9	0.03	0.002	
				Silicon	7440-21-3	0.75	0.041	
				Chromium	7440-47-3	18	0.985	
				Nickel	7440-02-0	8	0.438	
				Iron	7439-89-6	71.095	3.891	
20	Adhesive	Adhesive	0.0001	Acrylic Resin	Proprietary	98.8	0.0006	0.001

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				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	0.009
				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	0.114	0.17
				Lithium Stearate	4485-12-5	25.40	0.042	
				Silane, Dichorodimethyl-Reaction Products with Silica	68611-44-9	4.80	0.008	
				Diphenylamine	122-39-4	0.90	0.001	
		Total weight	17.3401					

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Important remarks:

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