MATERIAL DECLARATION SHEET

BOURNS®
Reliable Electronic Solutions

Material Number	3862C (L)		
Product Line	Panel Control		
Compliance Date	May 09, 2007		
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	Substrate	Ceramic	0.8347	Aluminum Oxide	1344-28-1	96	11.1	11.75
				Silicon Oxide	7631-86-9	3	0.3	
				Magnesium Oxide	1309-48-4	2	0.2	
				Calcium Oxide	1305-78-8	1	0.1	
				Other Oxides		0.5	0.05	
2	Conductor Ink	Ink	0.003	Silver	7440-22-4	75	0.032	0.042
				Palladium	7440-05-3	10	0.004	
				Dibismuth trioxide	1304-76-3	10	0.004	
				Ruthenium(IV)oxide	12036-10-1	1	0.0004	
				Silicon dioxide	7631-86-9	1	0.0004	
				Nickel monoxide	1313-99-1	1	0.0004	
				Lead monoxide	1317-36-8	1	0.0004	
3	Resistive Ink	Ink	.005	Ruthenium (IV) oxide	12036-10-1	12.1	.0085	.0704
				Silver	7440-22-4	10.1	.0071	
				Palladium	7740-05-3	12.1	.0085	
				Diboron trioxide	1303-86-2	1.05	.0007	
				Aluminum Oxide	1344-86-2	3.05	.002	
				Lead-monoxide	1317-36-8	19.1	.0134	
				Silicon Dioxide	7631-86-9	14.1	.0099	
				Calcium Oxide	1305-78-8	1.05	.0007	
				Disbismuth Trioxide	1304-76-3	11.1	.0078	
				Digadolinium trioxide	12064-62-9	14.1	.0093	
				Proprietary Ingredients		2.05	.0014	

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4	Resistive Ink	Ink	.005	Ruthenium (IV) oxide	12036-10-1	8.26	.0058	.0704
				Silver	7440-22-4	19.53	.013	
				Palladium	7740-05-3	22.53	.0158	
				Diboron trioxide	1303-86-2	1.26	.0088	
				Aluminum Oxide	1344-86-2	3.26	.0022	
				Lead-monoxide	1317-36-8	5.26	.0003	
				Silicon Dioxide	7631-86-9	15.53	.0103	
				Calcium Oxide	1305-78-8	2.26	.0001	
				Disbismuth Trioxide	1304-76-3	7.26	.0051	
				Digadolinium trioxide	12064-62-9	9.26	.006	
				Proprietary Ingredients		5.53	.003	
5	Pin X3	Copper	0.1785	Copper	7440-50-8	100	2.51	2.514
		Plating	0.0005	Tin	7440-31-5	100	0.007	0.007
6	Epoxy	Epoxy	0.0039	Epoxy resin		47	0.026	0.055
				Pigment (Phthalocyanine in Bisphenol A and TiO2)		4	0.002	
				fillers(Silica + Aluminum Silicate)		49	0.027	
7	Rotor	PPS	0.81	Polyphenylene Sulfide	9016-75-5	58	6.61	11.4
				Glass	65997-17-3	42	4.79	
8	Shaft	Brass	2.5	Copper	7440-50-8	61	21.47	35.21
				Zinc	7440-66-6	36	12.67	
				Lead	7439-92-1	3	1.05	
		Plating	0.007	Nickel	7440-02-0	100	0.099	0.099
9	C Ring	Stainless Steel	0.067	Iron	7439-89-6	49	0.463	0.94
				Chromium	7440-47-3	14	0.13	
				Nickel	7440-02-0	11	0.103	
				Manganese	7439-96-5	7	0.066	
				Tungsten	7440-33-7	3	0.028	
				Molybdenum	7439-98-7	3	0.028	
				Aluminum	7429-90-5	2	0.019	
				Copper	7440-50-8	3	0.028	
				Silicon	7440-21-3	4	0.038	
				Cobalt	7440-48-4	4	0.038	

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10	Lube (Shaft)	Grease	0.003	Siloxanes and Silicones, Me- 3,3,3 - Trifluoropropyl	63148-56-1	65	0.025	0.042
				PTFE		34		
				Proprietary Ingredients		1	0.016	
11	Lube (Element)	Fluid	0.002	Siloxanes and Silicones, Me- 3.3.3-Trifluoropropyl	63148-56-1	99	.027	0.028
				Proprietary Ingredients		1	.002	
12	Marking Ink	Ink	0.0001	Solid Resin		100	0.001	0.001
13	Bushing	Brass	1.396	Copper	7440-50-8	60	11.79	19.662
				Iron	7439-89-6	1.5	0.29	
				Lead	7439-92-1	2.5	0.49	
				Zinc	7440-66-6	36	7.07	
		Plating	0.004	Nickel	7440-02-0	100	0.056	0.056
14	Housing	Brass	0.9475	Copper	7440-50-8	70	9.34	13.345
				Zinc	7440-66-6	30	4.0	
		Plating	0.0025	Nickel	7440-02-0	100	0.035	0.035
15	Retainer Ring	Brass	0.2493	Copper	7440-50-8	70	2.45	3.5
				Zinc	7440-66-6	30	1.05	
		Plating	0.0007	Nickel	7440-05-0	100	0.01	0.01
16	Carbon Contact	Carbon	0.029	Carbon	7440-44-0	100	0.16	0.159
17	O-Ring	Silicon	0.0113	Silicon	7440-21-3	100	0.16	0.159
18	Contact Spring	Beryllium Copper	0.039	Beryllium	7440-41-7	1.8	0.009	0.549
				Copper	7440-50-8	97.8	0.53	
				Silicon	7440-21-3	0.2	0.001	
				Aluminum	7429-90-5	0.2	0.001	
		Plating	0.001	Gold	7440-57-5	100	0.014	0.014
		Total weight	7.1					

This Document was updated on: May 8, 2007

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Exemptions include 5 – lead in glass and 6 – lead in copper alloys.