

MATERIAL DECLARATION SHEET

BOURNS®

Material number	AMS22B5A			
Product Line	Sensors & Controls			
Compliance Date	Feb 05, 2013			
RoHS Compliant	Yes	MSL	N/A	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material Substance	CASRN if Applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Hex Nut	Brass C260	1.25	Copper	7440-50-8	70	5.003	7.147
				Zinc	7440-66-6	30	2.144	
		Plating	0.09	Nickel	7440-02-0	100	0.515	0.515
2	Lock Washer	Stainless Steel S50CM	0.305	Carbon	7440-44-0	0.5	0.0087	1.743
				Chromium	7440-47-3	0.1	0.0017	
				Copper	7440-50-8	0.2	0.0035	
				Iron	7439-89-6	98.01	1.7086	
				Manganese	7439-96-5	0.8	0.0139	
				Nickel	7440-02-0	0.1	0.0017	
				Phosphorus	7723-14-0	0.02	0.0003	
				Sulphur	7704-34-9	0.02	0.0003	
				Silicon	7440-21-3	0.25	0.0044	
		Plating	0.0051	Nickel	7440-02-0	100	0.029	0.029
3	Housing Molded	Resin	2.018	PBT	26062-94-2	53.7	6.196	11.538
				Glass Fiber	65997-17-3	30	3.461	
				Brominated Epoxy Resin	68928-70-1	10.5	1.211	
				Antimony Trioxide	1309-64-4	3	0.346	
				Pigment Blue 15	147-14-8	0.8	0.092	
				Further Additives, not to Declare	Proprietary	2	0.231	

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4	Bushing	Brass C360	3.63	Copper	7440-50-8	61.5	12.764	20.754
				Iron	7439-89-6	0.2	0.042	
				Lead	7439-92-1	3	0.623	
				Zinc	7440-66-6	35	7.264	
				Misc, not to Declare	Proprietary	0.3	0.062	
		Plating	0.022	Nickel	7440-02-0	100	0.126	0.126
5	Bearing Sleeve	Phosphor Bronze C510	1.74	Copper	7440-50-8	94.6	9.411	9.948
				Iron	7439-89-6	0.06	0.006	
				Phosphorus	7723-14-0	0.2	0.019	
				Lead	7439-92-1	0.025	0.002	
				Tin	7440-31-5	5.0	0.497	
				Zinc (Metal)	7440-66-6	0.1	0.010	
				Misc., not to Declare	Proprietary	0.025	0.002	
		Oil lite	0.001	1-Decene, Homopolymer, Hydrogenated	68037-01-4	94.5	0.0054	0.0057
				Tris (Methylphenyl) Phosphate	1330-78-5	5.5	0.0003	
6	Shaft	303 Stainless Steel	5.2	Carbon	7440-44-0	0.15	0.045	29.731
				Manganese	7439-96-5	2	0.595	
				Phosphorus	7723-14-0	0.2	0.059	
				Sulfur	7704-34-9	0.15	0.045	
				Silicon	7440-21-3	0.9	0.268	
				Chromium	7440-47-3	18	5.352	
				Nickel	7440-02-0	9	2.676	
				Iron	7439-89-6	69	20.514	
				Molybdenum	7439-98-7	0.6	0.178	
				Carbon	7440-44-0	0.08	0.0006	
7	Washer (X2)	Stainless Steel 304	0.124	Manganese	7439-96-5	2	0.014	0.709
				Phosphorus	7723-14-0	0.045	0.0003	
				Sulfur	7704-34-9	0.03	0.0002	
				Silicon	7440-21-3	0.75	0.005	
				Chromium	7440-47-3	18	0.128	

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				Nickel	7440-02-0	8	0.057	
				Iron	7439-89-6	71.095	0.504	
8	Retaining Ring	Stainless Steel 302	0.024	Carbon	7440-44-0	0.18	0.00025	0.137
				Manganese	7439-96-5	2	0.00274	
				Phosphorus	7723-14-0	0.045	0.000062	
				Sulfur	7704-34-9	0.03	0.000041	
				Silicon	7440-21-3	0.75	0.00103	
				Chromium	7440-47-3	17	0.0233	
				Nickel	7440-02-0	8	0.01098	
				Iron	7439-89-6	71.995	0.099	
9	Rotor	Resin	0.356	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66	1.343	2.035
				Glass Fiber	65997-17-3	32	0.651	
				Molybdenum Disulfide	1317-33-5	2	0.041	
10	Magnet	Magnet	0.52	Neodymium	7440-00-8	20.5	0.609	2.973
				Praseodymium	7440-10-0	7.5	0.223	
				Boron	7440-42-8	1	0.030	
				Gadolinium	7440-54-2	2.5	0.07	
				Cerium	7440-45-1	3.0	0.089	
				Holmium	7440-60-0	2.5	0.07	
				Cobalt	7440-48-4	2.5	0.07	
				Aluminum	7429-90-5	1	0.030	
				Copper	7440-50-8	0.5	0.015	
				Titanium	7440-32-6	0.5	0.015	
				Iron	7439-89-6	58.5	1.739	
		Plating	0.001	Nickel	7440-02-0	100	0.006	0.006
11	Cover Molded	Resin	1.106	PA 9T	169284-22-4	43	2.719	6.324
				Brominated Polystyrene	88497-56-7	23	1.454	
				Glass Fiber	65997-17-3	34	2.150	
12	Terminal (X3)	Brass C26000	0.288	Copper	7440-50-8	70.0	1.153	1.647
				Zinc	7440-66-6	30.0	0.494	

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		Under Plating	0.001	Nickel	7440-02-0	100.0	0.0057	0.00572
		Over Plating	0.001	Tin	7440-31-5	100	0.0057	0.00572
13	PCB	FR-4	0.344	Copper Clad Limanite	7440-50-8	40	0.787	1.967
				Fiber Glass Wool	65997-17-3	30	0.590	
				Phenol, 4,4'-(1-Methylethylidene) Bis [2,6-Dibromo-, Polymer with (Chloromethyl) Oxirane and 4,4'-(1-	26265-08-7	30	0.590	
		Copper Anode	0.0480	Phosphor Copper Anode	7440-50-8	99.99	0.274	0.274
				Phosphorus	7723-14-0	0.01	0.00003	
		Solder Mask	0.0064	Liquid Solder Resist Ink	24969-06-0	32.84	0.012	0.037
				Barium Sulfate	7727-43-7	30.9	0.011	
				Pigment Green 7	14832-14-5	0.74	0.0003	
				GF-Fibre	Proprietary	2.34	0.001	
				Pyrimidin-2-Ylamine	109-12-6	1.4	0.001	
				Aromatic Hydrocarbons	63231-51-6	10.8	0.004	
				Methoxypropoxypropanol; Dipropylene Glycol Monomethyl Ether	34590-94-8	8.05	0.003	
				Propylene Glycol Monomethyl Ether	107-98-2	2.55	0.001	
				2-(2-Ethoxyethoxy) Ethyl Acetate	112-15-2	0.335	0.0001	
				Di (Propylene Glycol) Methyl Ether Acetate	88917-22-0	10.045	0.004	
		Silkscreen	0.006	Legend	25085-99-8	51	0.017	0.034
				Titanium Dioxide	13463-67-7	15	0.005	
				Talc (Mg3H2(SiO3)4)	14807-96-6	16	0.005	
				Tripropylene Glycol Diacrylate	42978-66-5	16	0.005	
				Silicon Dioxide	7631-86-9	2	0.001	
		ENIG	0.001	Silver	7440-22-4	20	0.001	0.006

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				Nickel	7440-02-0	80	0.0046	
14	Capacitors (X3)	Ceramic Dielectric	.1377	Barium Titanium Oxide	12047-27-7	99.13	0.7804	0.7873
				Misc, not to Declare	Proprietary	.87	0.0068	
		Internal Electrode	.0219	Nickel	7440-02-0	100	0.1252	0.1252
		Termination	.0204	Copper	7440-50-8	47	0.0549	0.1166
				Miscellaneous	Proprietary	3	0.0034	
				Nickel	7440-02-0	11.76	0.01372	
				Tin	7440-31-5	38.23	0.0446	
15	Melexis	Lead Frame	0.02401	Copper	7440-50-8	99.85	0.1371	0.1373
				Zirconium	7440-67-7	0.1	0.0001	
				Misc., not to Declare	Proprietary	0.05	0.0001	
		Frame Plating	0.00024	Silver	7440-22-4	99.99	0.0014	0.0014
				Others	Proprietary	0.01	0.0000001	
		Die	0.00302	Silicon	7440-21-3	99.99	0.0173	0.0173
				others	Proprietary	0.01	0.0000002	
		IMC	0.000006	Iron (Fe)	7439-89-6	19.75	0.00001	0.0000
				Nickel	7440-02-0	40	0.00001	
				Molybdenum	7439-98-7	40	0.00001	
				Others	Proprietary	0.25	0.0000001	
		Die Attach Material	0.00113	Silver	7440-22-4	76	0.0049	0.0065
				Epoxy Resin	Proprietary	23	0.0015	
				Further Additives	Proprietary	1	0.0001	
		Wire	0.0003	Gold	7440-57-5	99	0.001698	0.002
				Palladium	7440-05-3	0.95	0.000016	
				Calcium	7440-70-2	0.05	0.000001	
		Lead Finish	0.00137	Tin	7440-31-5	99.99	0.0078	0.0078
				Others	Proprietary	0.01	0.000001	
		Encapsulation	0.08173	Silica Fused	6067-86-0	75	0.3505	0.4673
				Silicon Dioxide	7631-86-9	12.5	0.0584	

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				Epoxy Resin	Proprietary	6.5	0.0304	
				Phenol Resin	Proprietary	5.5	0.0257	
				Carbon Black	1333-86-4	0.5	0.0023	
16	Solder Paste	Solder Paste	0.01	Tin	7440-31-5	86	0.049	0.057
				Silver	7440-22-4	5	0.0029	
				Rosin	65997-06-0	5	0.0029	
				2-Ethylhexane-1,3-Diol	94-96-2	3	0.0017	
				Misc, not to Declare	Proprietary	1	0.0006	
17	Conformal Coating	PUR-Lacquer	0.032	Polyurethane	Proprietary	99.43	0.1819	0.183
				Pigment Portion, not to Declare	Proprietary	0.15	0.0003	
				Cobalt bis (2-Ethylhexanoate)	136-52-7	0.42	0.0008	
18	Solder Wire	Solder	0.032	Tin	7440-31-5	96.5	0.177	0.183
				Silver	7440-22-4	3	0.005	
				Copper	7440-50-8	0.5	0.0009	
19	Epoxy	Epoxy	0.036	Caprolactone, Trimethylolpropane Polymer	37625-56-2	60	0.123	0.206
				Aluminum Oxide	1344-28-1	30	0.062	
				Silicon Dioxide	112945-52-5	10	0.021	
20	Lube	Lube	0.001	Poly (1-Decene)	68649-12-7	58.8	0.0034	0.006
				Poly (Propylene-Co-Ethylene)	9010-79-1	30.8	0.0018	
				Silicon Dioxide	112945-52-5	5.4	0.0003	
				Polytetrafluoroethylene	9002-84-0	5	0.0003	
		Total weight	17.490					

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Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. "Proprietary" in the substance name and / or in CAS number means that sub-supplier did not provide the information. Bourns' declaration of compliance with REACH and/or RoHS is based on declarations received from such sub-suppliers.

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