

MATERIAL DECLARATION SHEET



Material Number	53ABD-XXX-SXXL			
Product Line	Sensors & Controls			
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	0.510	0.729
				Zinc	7440-66-6	30	0.219	
		Plating	0.0001	Nickel	7440-02-0	100	0.001	0.001
2	Lock Washer	C1050 Carbon Steel	0.169	Carbon	7440-44-0	0.5	0.0075	1.50
				Iron	7439-89-6	98.7	1.485	
				Manganese	7439-96-5	0.75	0.0113	
				Phosphorus	7723-14-0	0.02	0.0003	
				Sulphur	7704-34-9	0.03	0.0005	
		Plating	0.001	Nickel	10101-97-0	100	1.504	0.009
3	Substrate (X2)	Ceramic	0.3	Aluminum Oxide	1344-28-1	96	2.6	2.670
				Silicon Dioxide	7631-86-9	2	0.053	
				Magnesium Oxide	1309-48-4	1	0.027	
				Calcium Oxide	1305-78-8	1	0.027	
4	Ink (X2)	Ink	0.005	Silver	7440-22-4	92	0.041	0.045
				Bismuth in Glass	7440-69-9	2	0.0009	
				Copper	7440-50-8	1	0.0004	
				Glass w/o Declarables	65997-17-3	3.5	0.0016	
				Barium	7440-39-3	0.2	0.0001	
				Boron	7440-42-8	0.2	0.0001	
				Aluminum in Glass	7429-90-5	1.1	0.0005	
5	Ink (X2)	Ink	0.001	Phenolic Resin	9039-25-2	54	0.0048	0.0089
				DAIP Resin	1087-21-4	4	0.0004	

MATERIAL DECLARATION SHEET



				Carbon Black	1333-86-4	13	0.0012	
				Graphite	7782-42-5	3	0.0003	
				Silver	7440-22-4	26	0.0023	
6	Ink (X2)	Ink	0.003	Formaldehyde, Polymer	28470-78-2	31	0.008	0.027
				Barium Sufate	7727-43-7	16	0.004	
				Carbon black	1333-86-4	9	0.002	
				DAIP Resin	1087-21-4	19	0.005	
				Phenolic Resin	9039-25-2	18	0.005	
				Graphite	7782-42-5	5	0.001	
				Polydimethylsiloxane	63148-62-9	2	0.0005	
7	Ink (X2)	Ink	0.005	Formaldehyde, Polymer	28470-78-2	29.5	0.0131	0.045
				Carbon Black	1333-86-4	14.5	0.0065	
				DAIP Resin	1087-21-4	19	0.0085	
				Phenolic Resin	9039-25-2	19.5	0.0087	
				Carbon	7440-44-0	9.5	0.0042	
				Graphite	7782-42-5	5	0.0022	
				Polydimethylsiloxane	63148-62-9	3	0.0013	
8	Terminal (X6)	Phosphor Bronze (C510 Alloy)	0.12	Copper	7440-50-8	94.6	1.010	1.068
				Iron	7439-89-6	0.06	0.0006	
				Phosphorus	7723-14-0	0.19	0.0020	
				Lead	7439-92-1	0.025	0.0003	
				Tin	7440-31-5	5	0.053	
				Zinc (Metal)	7440-66-6	0.1	0.0011	
				Misc., not to Declare	N/A	0.025	0.0003	
		Plating-Cu	0.0015	Copper	7440-50-8	100	0.013	0.013
		Plating-Sn	0.008	Tin	7440-31-5	100	0.071	0.071
9	Shaft	Brass C360	6.85	Copper	7440-50-8	61.5	37.49	60.97
				Iron	7439-89-6	0.2	0.122	
				Lead	7439-92-1	3	1.829	
				Zinc	7440-66-6	35	21.34	
				Misc, not to Declare	N/A	0.3	0.183	
		Plating	0.015	Nickel	7440-02-0	100	0.134	0.134

MATERIAL DECLARATION SHEET



10	Body Molded	Resin	0.659	PBT	26062-94-2	53.7	3.150	5.865
				Glass Fiber	65997-17-3	30	1.760	
				Brominated Epoxy Resin	68928-70-1	10.5	0.616	
				Antimony Trioxide	1309-64-4	3	0.176	
				Pigment Blue 15	147-14-8	0.8	0.047	
				Further Additives, Not to Declare	N/A	2	0.117	
11	Bushing	Aluminum 2011-T3	1.036	Aluminum (Metal)	7429-90-5	92.93	8.569	9.221
				Bismuth	7440-69-9	0.4	0.037	
				Copper	7440-50-8	5.5	0.507	
				Iron	7439-89-6	0.345	0.032	
				Lead	7439-92-1	0.4	0.037	
				Silicon	7440-21-3	0.2	0.018	
				Zinc (Metal)	7440-66-6	0.15	0.014	
				Misc, Not to Declare	N/A	0.075	0.007	
	Plating		0.0032	Nickel	7440-02-0	100	0.028	0.028
12	Rotor	Resin	0.1757	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66	1.032	1.564
				Glass Fiber	65997-17-3	32	0.500	
				Molybdenum Disulfide	1317-33-5	2	0.031	
13	Body Molded	Resin	0.659	PBT	26062-94-2	53.7	3.150	5.865
				Glass Fiber	65997-17-3	30	1.760	
				Brominated Epoxy Resin	68928-70-1	10.5	0.616	
				Antimony Trioxide	1309-64-4	3	0.176	
				Pigment Blue 15	147-14-8	0.8	0.047	
				Further Additives, Not to Declare	N/A	2	0.117	
14	Rotor	Resin	0.1757	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66	1.0321	1.564
				Glass Fiber	65997-17-3	32	0.5004	

MATERIAL DECLARATION SHEET



				Molybdenum Disulfide	1317-33-5	2	0.031	
15	Rear Cover	Resin	0.211	PBT	26062-94-2	53.7	1.007	1.875
				Glass Fiber	65997-17-3	30	0.563	
				Brominated Epoxy Resin	68928-70-1	10.5	0.197	
				Antimony Trioxide	1309-64-4	3	0.056	
				Pigment Blue 15	147-14-8	0.8	0.015	
				Further Additives, Not to Declare	N/A	2	0.038	
16	Rear Cover	Resin	0.211	PBT	26062-94-2	53.7	1.007	1.875
				Glass Fiber	65997-17-3	30	0.563	
				Brominated Epoxy Resin	68928-70-1	10.5	0.197	
				Antimony Trioxide	1309-64-4	3	0.056	
				Pigment Blue 15	147-14-8	0.8	0.015	
				Further Additives, Not to Declare	N/A	2	0.038	
17	Contact Spring (X2)	Nickel/Silver C7701	0.029	Copper	7440-50-8	55.5	0.143	0.258
				Iron	7439-89-6	0.13	0.0003	
				Manganese	7439-96-5	0.35	0.001	
				Nickel	7440-02-0	18	0.046	
				Lead	7439-92-1	0.02	0.00005	
				Zinc	7440-66-6	26	0.067	
18	Bracket	Stainless Steel 301	0.347	Carbon	7440-44-0	0.15	0.005	3.087
				Manganese	7439-96-5	2	0.062	
				Phosphorus	7723-14-0	0.045	0.001	
				Sulfur	7704-34-9	0.03	0.001	
				Silicon	7440-21-3	1	0.031	
				Chromium	7440-47-3	17	0.525	
				Nickel	7440-02-0	7	0.216	
				Iron	7439-89-6	72.775	2.246	
19	O-Ring	Nitrile Rubber	0.01	Nitrile Rubber	9005-98-5	100	0.089	0.089
20	O-Ring	Synthetic Rubber	0.0523	Butadiene/acrylonitrile copolymer	9003-18-3	97	0.452	0.465

MATERIAL DECLARATION SHEET



				Fatty Acids, C14-18 & C16-18-Unsatd	67701-06-8	1.5	0.007	
				Rosin, Potassium Salts	61790-50-9	1.5	0.007	
21	Lube	Lube	0.0015	Decanoic Acid, Mixed Esters with Heptanoic Acid, Octanoic Acid, Trimethylolpropane	68130-53-0	54.4	0.007	0.013
				Lithium 12-Hydroxystearate	7620-77-1	5.7	0.001	
				Isohexadecyl-Isooctadecanoate	52006-45-8	33.7	0.004	
				Polyisobutylene	9003-27-4	6.2	0.001	
22	Lube	Lube	0.0015	Fluorosilicone	63148-56-1	100	0.013	0.013
23	Epoxy	Epoxy	0.089	Epoxy Resin	25085-99-8	49	0.388	0.792
				Antimony Trioxide	1309-64-4	11	0.087	
				Quartz, (SiO ₂)	14808-60-7	11	0.087	
				Aluminum Oxide	1344-28-1	11	0.087	
				Kaolin Clay	1332-58-7	9	0.071	
				Mg Alumino Silicate	1302-88-1	9	0.071	
24	Epoxy	Epoxy	0.015	Epoxy Resin	25085-99-8	51	0.068	0.134
				Quartz, (SiO ₂)	14808-60-7	34	0.045	
				Kaolin Clay	1332-58-7	15	0.020	
		Total weight	11.236					

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Important remarks:

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