

MATERIAL DECLARATION SHEET



Material number	AMS22U5A			
Product Line	Sensors & Controls			
Compliance Date	Mar 15, 2012			
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	Housing Machined	Alum 2011-T3	9.325	Aluminum (Metal)	7429-90-5	92.93	61.079	65.725
				Bismuth	7440-69-9	0.40	0.263	
				Copper	7440-50-8	5.50	3.615	
				Iron	7439-89-6	0.35	0.227	
				Lead	7439-92-1	0.40	0.263	
				Silicon	7440-21-3	0.20	0.131	
				Zinc (Metal)	7440-66-6	0.15	0.099	
				Misc, not to Declare	Proprietary	0.08	0.049	
2	Ball Bearing (X2)	Ball Bearing	0.606	Carbon	7440-44-0	1.00	0.0427	4.271
				Chromium	7440-47-3	16.20	0.692	
				Iron	7439-89-6	81.30	3.4725	
				Manganese	7439-96-5	0.37	0.0158	
				Molybdenum	7439-98-7	0.45	0.0192	
				Phosphorus	7723-14-0	0.03	0.0012	
				Sulphur	7704-34-9	0.003	0.0001	
				Silicon	7440-21-3	0.40	0.0171	
				Nickel	7440-02-0	0.20	0.0085	
				Copper	7440-50-8	0.05	0.0021	
	Lube		0.001	Ester Oil, Synthetic, for	Proprietary	94.00	0.007	0.007

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				Lubricants				
				Barium bis (Dinonylnaphthalenesulphonate)	25619-56-1	2.5	0.00018	
				Further Additives, not to Declare	Misc, not to Declare	3.5	0.0002	
3	Shaft	Stainless Steel 303	1.290	Carbon	7440-44-0	0.15	0.014	9.092
				Manganese	7439-96-5	2.00	0.182	
				Phosphorus	7723-14-0	0.20	0.018	
				Sulfur	7704-34-9	0.15	0.014	
				Silicon	7440-21-3	0.90	0.082	
				Chromium	7440-47-3	18.00	1.637	
				Nickel	7440-02-0	9.00	0.818	
				Iron	7439-89-6	69.00	6.274	
4	C-Ring (X2)	Stainless Steel 420	0.034	Molybdenum	7439-98-7	0.60	0.055	0.240
				Carbon	7440-44-0	0.3	0.0007	
				Chromium	7440-47-3	13	0.031	
				Iron	7439-89-6	85.66	0.2053	
				Manganese	7439-96-5	0.5	0.00120	
				Phosphorus	7723-14-0	0.02	0.000048	
				Sulphur	7704-34-9	0.02	0.00005	
5	S.S. Washer X3	Stainless Steel SUS301	0.056	Silicon	7440-21-3	0.5	0.0012	0.398
				Carbon	7440-44-0	0.15	0.00060	
				Manganese	7439-96-5	2.00	0.00795	
				Phosphorus	7723-14-0	0.05	0.00018	
				Sulfur	7704-34-9	0.03	0.00012	
				Silicon	7440-21-3	1.00	0.00398	
				Chromium	7440-47-3	17.00	0.06758	
				Nickel	7440-02-0	7.00	0.02783	
6	Rotor	Resin	0.153	Iron	7439-89-6	72.78	0.28930	1.078
				Nylon 6.6 (Polyhexamethylene)	32131-17-2	66.00	0.712	

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				Adipamide)				
				Glass Fiber	65997-17-3	32.00	0.345	
				Molybdenum Disulfide	1317-33-5	2.00	0.022	
7	Magnet	Magnet	0.520	Neodymium	7440-00-8	20.50	0.751	3.665
				Praseodymium	7440-10-0	7.50	0.275	
				Boron	7440-42-8	1.00	0.037	
				Gadolinium	7440-54-2	2.50	0.09	
				Cerium	7440-45-1	3.00	0.110	
				Holmium	7440-60-0	2.50	0.09	
				Cobalt	7440-48-4	2.50	0.09	
				Aluminum	7429-90-5	1.00	0.037	
				Copper	7440-50-8	0.50	0.018	
				Titanium	7440-32-6	0.50	0.018	
				Iron	7439-89-6	58.50	2.144	
		Plating	0.001	Nickel	7440-02-0	100.00	0.007	0.007
8	Cover Molded	Resin	1.106	PA 9T	169284-22-4	43.00	3.352	7.795
				Brominated Polystyrene	88497-56-7	23.00	1.793	
				Glass Fiber	65997-17-3	34.00	2.650	
9	Terminal (X3)	Phos, Bronze C26000	0.288	Copper	7440-50-8	70.00	1.421	2.030
				zinc	7440-66-6	30.00	0.609	
		Under Plating	0.0001	Nickel	7440-02-0	100.0	0.0007	0.0007
		Over Plating	0.0001	Tin	7440-31-5	100.0	0.0007	0.0007
10	PCB	FR-4	0.344	Copper Clad Limanite	7440-50-8	40	0.970	2.425
				Fiber Glass Wool	65997-17-3	30	0.727	
				Phenol, 4,4'-(1-Methylethylidene) Bis [2,6-Dibromo-, Polymer with (Chloromethyl) Oxirane and 4,4'-(1-	26265-08-7	30	0.727	
		Copper Anode	0.0480	Phosphor Copper Anode	7440-50-8	99.99	0.338	0.338
				Phosphorus	7723-14-0	0.01	0.00003	

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		Solder Mask	0.0064	Liquid Solder Resist Ink	24969-06-0	32.84	0.015	0.045
				Barium Sulfate	7727-43-7	30.9	0.014	
				Pigment Green 7	14832-14-5	0.74	0.0003	
				GF-Fiber	Proprietary	2.34	0.001	
				Pyrimidin-2-Ylamine	109-12-6	1.4	0.001	
				Aromatic Hydrocarbons	63231-51-6	10.8	0.005	
				Methoxypropoxypropanol; Dipropylene Glycol monomethyl ether	34590-94-8	8.05	0.004	
				Propylene glycol monomethyl ether	107-98-2	2.55	0.001	
				2-(2-Ethoxyethoxy) Ethyl Acetate	112-15-2	0.335	0.0002	
				Di (Propylene Glycol) Methyl Ether Acetate	88917-22-0	10.045	0.005	
		Silkscreen	0.006	Legend	25085-99-8	51	0.022	0.042
				Titanium Dioxide	13463-67-7	15	0.006	
				Talc (Mg3H2(SiO3)4)	14807-96-6	16	0.007	
				Tripropylene Glycol Diacrylate	42978-66-5	16	0.007	
				Silicon Dioxide	7631-86-9	2	0.001	
		ENIG	0.001	Silver	7440-22-4	20	0.001	0.007
				Nickel	7440-02-0	80	0.0056	
11	Capacitors (X3)	Ceramic Dielectric	0.1377	Barium Titanium Oxide	12047-27-7	99.13	0.962	0.971
				Misc, not to Declare	Proprietary	.87	0.0084	
		Internal Electrode	0.0219	Nickel	7440-02-0	100	0.154	0.154
		Termination	0.0204	Copper	7440-50-8	47	0.068	0.144
				Miscellaneous	Proprietary	3	0.004	
				Nickel	7440-02-0	11.76	0.0169	
				Tin	7440-31-5	38.23	0.0550	
12	Melexis	Lead frame	0.02401	Copper	7440-50-8	99.85	0.1690	0.1692
				Zirconium	7440-67-7	0.1	0.0002	
				Misc., not to Declare	Proprietary	0.05	0.0001	

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		Frame plating	0.00024	Silver	7440-22-4	99.99	0.0017	0.0017
				Others	Proprietary	0.01	0.0000002	
		Die	0.00302	Silicon	7440-21-3	99.99	0.0213	0.0213
				Others	Proprietary	0.01	0.0000002	
		IMC	0.000006	Iron	7439-89-6	19.75	0.00001	0.00004
				Nickel	7440-02-0	40	0.00002	
				Molybdenum	7439-98-7	40	0.00002	
				Others	Proprietary	0.25	0.0000001	
		Die Attach Material	0.00113	Silver	7440-22-4	76	0.0061	0.0080
				Epoxy Resin	Proprietary	23	0.0018	
				Further Additives	Proprietary	1	0.0001	
		Wire	0.0003	Gold	7440-57-5	99	0.002093	0.0021
				Palladium	7440-05-3	0.95	0.000020	
				Calcium	7440-70-2	0.05	0.000001	
		Lead Finish	0.00137	Tin	7440-31-5	99.99	0.0097	0.0097
				Others	Proprietary	0.01	0.000001	
		Encapsulation	0.08173	Silica Fused	6067-86-0	75	0.4320	0.5761
				Silicon Dioxide	7631-86-9	12.5	0.0720	
				Epoxy Resin	Proprietary	6.5	0.0374	
				Phenol Resin	Proprietary	5.5	0.0317	
				Carbon Black	1333-86-4	0.5	0.0029	
13	Solder Paste	Solder Paste	0.01	Tin	7440-31-5	86.00	0.061	0.070
				Silver	7440-22-4	5.00	0.0035	
				Rosin	65997-06-0	5.00	0.0035	
				2-Ethylhexane-1,3-Diol	94-96-2	3.00	0.0021	
				Misc, not to Declare	Proprietary	1.00	0.0007	
14	Conformal Coating	PUR-Lacquer	0.032	Polyurethane	Proprietary	99.43	0.224	0.226
				Pigment Portion, not to Declare	Proprietary	0.15	0.0003	
				Cobalt Bis (2-Ethylhexanoate)	136-52-7	0.42	0.0009	
15	Solder Wire	Solder	0.032	Tin	7440-31-5	96.50	0.218	0.226

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				Silver	7440-22-4	3.00	0.007	
				Copper	7440-50-8	0.50	0.001	
16	UV Epoxy	UV Epoxy	0.036	Caprolactone, Trimethylolpropane Polymer	37625-56-2	60.00	0.152	0.254
				Aluminium Oxide	1344-28-1	30.00	0.076	
				Silica, Amorphous Fumed	112945-52-5	10.00	0.025	
		Total weight	14.188					

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