


MATERIAL DECLARATION SHEET



Material number	AMM20B5			
Product Line	Sensors & Controls			
Compliance Date	Jan 10, 2019			
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 260	1.25	Copper	7440-50-8	70	4.463	6.376
				Zinc	7440-66-6	30	1.913	
		Plating	0.09	Nickel	7440-02-0	100	0.4590	0.459
2	Lock Washer	Steel S50CM	0.305	Carbon	7440-44-0	0.5	0.0079	1.581
				Chromium	7440-47-3	0.1	0.0016	
				Copper	7440-50-8	0.2	0.0032	
				Iron	7439-89-6	98.01	1.5497	
				Manganese	7439-96-5	0.8	0.0126	
				Nickel	7440-02-0	0.1	0.0016	
				Phosphorus	7723-14-0	0.02	0.00032	
				Sulphur	7704-34-9	0.02	0.0003	
		Silicon	7440-21-3	0.25	0.0040			
Plating	0.0051	Nickel	7440-02-0	100	0.0005	0.0005		
3	Housing Molded	Resin	2.98	PBT	26062-94-2	53.7	8.162	15.199
				Glass Fiber	65997-17-3	30	4.560	
				Brominated Epoxy Resin	68928-70-1	10.5	1.596	
				Antimony Trioxide	1309-64-4	3	0.456	
				Pigment Blue 15	147-14-8	0.8	0.122	
				Further Additives, Not to Declare	Proprietary	2	0.304	

MATERIAL DECLARATION SHEET



		Bushing Brass 360	4.34	Copper	7440-50-8	61.5	13.614	22.136
				Iron	7439-89-6	0.2	0.044	
				Lead	7439-92-1	3.0	0.664	
				Zinc	7440-66-6	35	7.748	
				Misc, Not to Declare	Proprietary	0.3	0.066	
		Plating	0.187	Nickel	7440-02-0	100	0.954	0.954
4	Bearing Sleeve	Bronze	0.995	Copper	7440-50-8	88	4.466	5.075
				Tin	7440-31-5	10	0.507	
				Carbon	7440-44-0	1	0.051	
		Misc, Not to Declare	Proprietary	1	0.051			
Lube	0.26	1-Decene, Homopolymer, Hydrogenated	68037-01-4	94.5	1.253	1.326		
		Tris (Methylphenyl) Phosphate	1330-78-5	5.5	0.073			
5	Washer	Stainless Steel 304	0.057	Carbon	7440-44-0	0.08	0.0002	0.291
				Manganese	7439-96-5	2	0.006	
				Phosphorus	7723-14-0	0.045	0.0001	
				Sulfur	7704-34-9	0.03	0.0001	
				Silicon	7440-21-3	0.75	0.002	
				Chromium	7440-47-3	18	0.052	
				Nickel	7440-02-0	8	0.023	
				Iron	7439-89-6	71.095	0.207	
6	Shaft	Stainless Steel 303	6.248	Carbon	7440-44-0	0.15	0.048	31.868
				Manganese	7439-96-5	2	0.637	
				Phosphorus	7723-14-0	0.2	0.064	
				Sulfur	7704-34-9	0.15	0.048	
				Silicon	7440-21-3	0.9	0.287	
				Chromium	7440-47-3	18	5.736	
				Nickel	7440-02-0	9	2.868	
				Iron	7439-89-6	69	21.989	

MATERIAL DECLARATION SHEET



				Molybdenum	7439-98-7	0.6	0.191	
7	Retaining Ring	PH-15-7 MO Stainless Steel	0.098	Aluminium (Metal)	7429-90-5	1.0	0.005	0.500
				Carbon	7440-44-0	0.07	0.0003	
				Chromium	7440-47-3	15.0	0.075	
				Iron	7439-89-6	73.39	0.367	
				Manganese	7439-96-5	0.5	0.002	
				Molybdenum	7439-98-7	2.5	0.012	
				Nickel	7440-02-0	7.0	0.035	
				Phosphorus	7723-14-0	0.02	0.0001	
				Sulphur	7704-34-9	0.02	0.0001	
				Silicon	7440-21-3	0.5	0.00250	
8	Pin	Stainless Steel 304	0.169	Carbon	7440-44-0	0.08	0.0007	0.862
				Manganese	7439-96-5	2	0.017	
				Phosphorus	7723-14-0	0.045	0.0004	
				Sulfur	7704-34-9	0.03	0.0003	
				Silicon	7440-21-3	0.75	0.006	
				Chromium	7440-47-3	18	0.155	
				Nickel	7440-02-0	8	0.069	
				Iron	7439-89-6	71.10	0.613	
9	Slider	Resin	0.502	Polyamide 66	32131-17-2	53	1.357	2.560
				Glass Fibers	65997-17-3	32	0.819	
				Tetrafluoroethylene Polymer	9002-84-0	13	0.333	
				Dimethylsilicone	63148-62-9	2	0.051	
10	Magnet	Magnet	0.637	Neodymium	7440-00-8	20.5	0.666	3.249
				Praseodymium	7440-10-0	7.5	0.244	
				Boron	7440-42-8	1	0.032	
				Gadolinium	7440-54-2	2.5	0.081	
				Cerium	7440-45-1	3.0	0.097	
				Holmium	7440-60-0	2.5	0.081	

MATERIAL DECLARATION SHEET



				Cobalt	7440-48-4	2.5	0.081	
				Aluminum	7429-90-5	1	0.032	
				Copper	7440-50-8	0.5	0.016	
				Titanium	7440-32-6	0.5	0.016	
				Iron	7439-89-6	58.5	1.901	
		Plating	0.001	Nickel	7440-02-0	0.5	0.00003	
11	Retaining Ring	PH-15-7 Stainless Steel	0.048	Aluminium (Metal)	7429-90-5	1.0	0.002	0.245
				Carbon	7440-44-0	0.07	0.00017	
				Chromium	7440-47-3	15.0	0.037	
				Iron	7439-89-6	73.39	0.180	
				Manganese	7439-96-5	0.5	0.001	
				Molybdenum	7439-98-7	2.5	0.006	
				Nickel	7440-02-0	7.0	0.017	
				Phosphorus	7723-14-0	0.02	0.00005	
				Sulphur	7704-34-9	0.02	0.00005	
				Silicon	7440-21-3	0.5	0.001	
12	Cover/Terminal Molded X3	Terminal X3 Phos, Bronze C51000	0.128	Copper	7440-50-8	94.6	0.618	0.653
				Iron	7439-89-6	0.06	0.0004	
				Phosphorus	7723-14-0	0.2	0.001	
				Lead	7439-92-1	0.025	0.0002	
				Tin	7440-31-5	5.0	0.033	
				Zinc (Metal)	7440-66-6	0.1	0.001	
				Misc., Not to Declare	Proprietary	0.025	0.0002	
		Under Plating	0.0001	Nickel	7440-02-0	100.0	0.0005	0.0005
		Over Plating	0.0001	Tin	7440-31-5	100	0.0005	0.0005
		Resin	0.615	PA 9T	169284-22-4	43	1.349	3.137
		Glass Fiber	65997-17-3	34	1.067			

MATERIAL DECLARATION SHEET



13	PCB Panel	Laminate	0.252	Brominated Polystyrene	88497-56-7	23	0.721	1.285
				Fibrous Glass	65997-17-3	50.5	0.649	
				Copper	7440-50-8	9.7	0.125	
				Epoxy Resin	Proprietary	33.8	0.434	
		Solder Mask	0.0309	Filler	Proprietary	6	0.077	0.158
				Barium Sulfate	7727-43-7	42.5	0.067	
				Acrylate Resin	Proprietary	35.9	0.057	
				Quartz (SiO ₂)	14808-60-7	10.6	0.017	
				Additive	Proprietary	2.66	0.004	
				TALC (CONTAINING NO ASBESTOS FIBRES)	14807-96-6	2.66	0.004	
				Amine Compound	Proprietary	3.98	0.006	
				Silica, Amorphous, Precipitated and Gel	112926-00-8	0.8	0.001	
		Component Mask	0.00252	Silicon Dioxide	7631-86-9	0.9	0.001	0.013
				Epoxy Resin	Proprietary	26.8	0.003	
				Inorganic Pigment and Others	Proprietary	36.1	0.005	
				Talc	14807-96-6	9.4	0.001	
				Barium Sulfate	7727-43-7	0.97	0.0001	
				Amine Compound	Proprietary	0.77	0.0001	
				Defoamer and others	Proprietary	3.75	0.0005	
				Diethylene Glycol Monoethyl Ether Acetate	112-15-2	17.64	0.002	
Copper	0.072	High Boiling Point Petroleum Solvent	64742-94-5	4.57	0.001	0.367		
		Copper	7440-50-8	99.95	0.367			
Gold	0.00108	Phosphorus	7723-14-0	0.05	0.0002	0.006		
Nickel	0.00144	Gold	7440-57-5	100	0.006	0.007		
14	Capacitors X 3	Ceramic Dielectric	0.1377	Nickel	7440-02-0	100	0.007	0.702
				Barium Titanium Oxide	12047-27-7	99.13	0.6962	
				Misc, not to Declare	Proprietary	0.87	0.0061	

MATERIAL DECLARATION SHEET



		Internal Electrode	0.0219	Nickel	7440-02-0	100	0.112	0.112
		Termination	0.0204	Copper	7440-50-8	47	0.0490	0.104
				Miscellaneous	Proprietary	3	0.0031	
				Nickel	7440-02-0	11.76	0.01224	
				Tin	7440-31-5	38.23	0.0398	
15	Melexis	Lead Frame	0.02401	Copper	7440-50-8	99.85	0.12228	0.122
				Zirconium (Zr)	7440-67-7	0.1	0.00012	
				Misc., not to Declare	Proprietary	0.05	0.00006	
		Frame Plating	0.00024	Silver	7440-22-4	99.99	0.00122	0.001
				Others	Proprietary	0.01	0.0000001	
		Die	0.00302	Silicon	7440-21-3	99.99	0.01540	0.0154
				Others	Proprietary	0.01	0.000002	
		IMC	0.000006	Iron	7439-89-6	19.75	0.00001	0.00003
				Nickel	7440-02-0	40.0	0.00001	
				Molybdenum	7439-98-7	40.0	0.00001	
				Others	Proprietary	0.3	0.0000001	
		Die Attach Material	0.00113	Silver	7440-22-4	76.0	0.00438	0.006
				Epoxy Resin	Proprietary	23.0	0.00133	
				Further Additives.	Proprietary	1.0	0.00006	
		Wire	0.0003	Gold	7440-57-5	99.0	0.00151	0.00153
				Palladium	7440-05-3	1.0	0.00001	
				Calcium	7440-70-2	0.1	0.000001	
		Lead Finish	0.00137	Tin	7440-31-5	99.99	0.00699	0.007
Others	Proprietary			0.01	0.000001			
Encapsulation	0.08173	Silica Fused	60676-86-0	75.0	0.31265	0.417		
		Silicon Dioxide	7631-86-9	12.5	0.05211			
		Epoxy Resin	Proprietary	6.5	0.02710			
		Phenol Resin	Proprietary	5.5	0.02293			
		Carbon Black	1333-86-4	0.5	0.00208			
16	Solder Paste	Solder Paste	0.003	Tin	7440-31-5	86	0.01316	0.01530

MATERIAL DECLARATION SHEET



				Silver	7440-22-4	5	0.00077	
				Rosin	65997-06-0	5	0.00077	
				2-Ethylhexane-1,3-Diol	94-96-2	3	0.00046	
				Misc, not to Declare	Proprietary	1	0.00015	
17	Conformal Coating	Conformal Coating	0.032	Polyurethane	Proprietary	99.43	0.162	0.163
				Pigment Portion, not to Declare	Proprietary	0.15	0.0002	
				Cobalt bis(2-Ethylhexanoate)	136-52-7	0.42	0.001	
18	Solder	Lead Free Solder	0.02	Tin	7440-31-5	88	0.090	0.102
				Silver	7440-22-4	7	0.007	
				Copper	7440-50-8	5	0.005	
19	UV Epoxy	UV Epoxy	0.036	Caprolactone, Trimethylolpropane Polymer	37625-56-2	60	0.110	0.184
				Aluminium Oxide	1344-28-1	30	0.055	
				Silica, Amorphous Fumed	112945-52-5	10	0.018	
20	Lube	Lube	0.01	1-Decene, Tetramer, Mixed with 1-Decene Trimer, Hydrogenated	68649-12-7	58.8	0.0300	0.051
				1-Propene, Polymer with Ethene	9010-79-1	30.8	0.0157	
				Silica, Amorphous Fumed	112945-52-5	5.4	0.0028	
				Polytetrafluoroethylene	9002-84-0	5	0.0026	
21	Lube	Lube	0.25	1-Dodecene, Polymer with 1-Decene, Hydrogenated	151006-60-9	26	0.332	1.275
				1-Decene, Homopolymer, Hydrogenated	68037-01-4	26	0.332	
				1-Dodecene, Polymer with 1-Decene and 1-Octene, Hydrogenated	163149-28-8	26	0.332	

MATERIAL DECLARATION SHEET



				Ethene, Tetrafluoro-, Homopolymer	9002-84-0	9.5	0.121	
				Lithium 12-Hydroxystearate	7620-77-1	9.5	0.121	
				Further Additives, not to Declare	Proprietary	1.5	0.019	
				Misc Not to Declare	Proprietary	1.5	0.019	
			Total weight	19.6060				

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