

MATERIAL DECLARATION SHEET



Material number	AMS22S5A			
Product Line	Sensors & Controls			
Compliance Date	Aug 19, 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	Housing Machined	Alum 2011-T3	8.750	Aluminum (Metal)	7429-90-5	92.9	51.840	55.784
				Bismuth	7440-69-9	0.4	0.223	
				Copper	7440-50-8	5.5	3.068	
				Iron	7439-89-6	0.3	0.192	
				Lead	7439-92-1	0.4	0.223	
				Silicon	7440-21-3	0.2	0.112	
				Zinc (Metal)	7440-66-6	0.2	0.084	
				Misc, not to Declare	Proprietary	0.1	0.042	
2	Bearing Sleeve	Bronze CT-1000-K26	1.740	Copper	7440-50-8	88.0	9.762	11.093
				Tin	7440-31-5	10.0	1.109	
				Carbon	7440-44-0	1.0	0.111	
				Misc, not to Declare	Proprietary	1.0	0.111	
		Lube	0.001	1-Decene, Homopolymer, Hydrogenated	68037-01-4	94.5	0.006	0.006
				Tris(methylphenyl) Phosphate	1330-78-5	5.5	0.0004	
3	Shaft	Stainless Steel 303	1.864	Carbon	7440-44-0	0.2	0.018	11.884
				Manganese	7439-96-5	2.0	0.238	
				Phosphorus	7723-14-0	0.2	0.024	
				Sulfur	7704-34-9	0.2	0.018	

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				Silicon	7440-21-3	0.9	0.107	
				Chromium	7440-47-3	18.0	2.139	
				Nickel	7440-02-0	9.0	1.070	
				Iron	7439-89-6	69.0	8.200	
				Molybdenum	7439-98-7	0.6	0.071	
4	Retaining Ring	Carbon Steel 1074	0.144	Iron	7439-89-6	98.6	0.9052	0.918
				Carbon	7440-44-0	0.7	0.006	
				Further Additives, not to Declare	Proprietary	0.7	0.0064	
5	Retaining E-ring	Stainless Steel PH 15-7Mo	0.135	Aluminum (Metal)	7429-90-5	1.0	0.009	0.861
				Carbon	7440-44-0	0.1	0.0006	
				Chromium	7440-47-3	15.0	0.129	
				Iron	7439-89-6	73.4	0.632	
				Manganese	7439-96-5	0.5	0.004	
				Molybdenum	7439-98-7	2.5	0.022	
				Nickel	7440-02-0	7.0	0.060	
				Phosphorus	7723-14-0	0.02	0.0002	
				Sulphur	7704-34-9	0.02	0.0002	
				Silicon	7440-21-3	0.5	0.004	
6	Rotor	Resin	0.375	Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66.0	1.578	2.391
				Glass Fiber	65997-17-3	32.0	0.765	
				Molybdenum Disulfide	1317-33-5	2.0	0.048	
7	Magnet	Neodymium Magnet	0.520	Neodymium	7440-00-8	20.5	0.680	3.315
				Praseodymium	7440-10-0	7.5	0.249	
				Boron	7440-42-8	1.0	0.033	
				Gadolinium	7440-54-2	2.5	0.08	
				Cerium	7440-45-1	3.0	0.099	
				Holmium	7440-60-0	2.5	0.08	
				Cobalt	7440-48-4	2.5	0.08	
				Aluminum	7429-90-5	1.0	0.033	
				Copper	7440-50-8	0.5	0.017	

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		Plating	0.001	Titanium	7440-32-6	0.5	0.017	0.006
				Iron	7439-89-6	58.5	1.939	
				Nickel	7440-02-0	100.0	0.006	
8	Cover Molded	Resin	1.06	PA 9T	169284-22-4	43.0	2.906	6.758
				Brominated Polystyrene	88497-56-7	23.0	1.554	
				Glass Fiber	65997-17-3	34.0	2.298	
9	Terminal (X3)	Brass C26000	0.288	Copper	7440-50-8	70.0	1.3	1.836
				Zinc	7440-66-6	30.0	0.6	
		Under Plating	0.0001	Nickel	7440-02-0	100.0	0.001	0.001
		Over Plating	0.0001	Tin	7440-31-5	100.0	0.001	0.001
10	PCB	FR-4	0.344	Copper Clad Limanite	7440-50-8	40.0	0.877	2.193
				Fiber Glass Wool	65997-17-3	30.0	0.658	
				Phenol, 4,4'-(1-Methylethylidene)Bis [2,6-Dibromo-, Polymer with (Chloromethyl) Oxirane and 4,4'-(1-	26265-08-7	30.0	0.658	
		Copper Anode	0.0480	Phosphor Copper Anode	7440-50-8	99.99	0.306	0.306
				Phosphorus	7723-14-0	0.01	0.00003	
		Solder Mask	0.0064	Liquid Solder Resist Ink	24969-06-0	32.8	0.013	0.041
				Barium sulfate	7727-43-7	30.9	0.013	
				Pigment Green 7	14832-14-5	0.7	0.000	
				GF-Fibre	Proprietary	2.3	0.001	
				Pyrimidin-2-Ylamine	109-12-6	1.4	0.001	
				Aromatic Hydrocarbons	63231-51-6	10.8	0.004	
				Methoxypropoxypropan ol;Dipropylene Glycol Monomethyl Ether	34590-94-8	8.1	0.003	
				Propylene Glycol Monomethyl Ether	107-98-2	2.6	0.001	
				2-(2-Ethoxyethoxy)Ethyl Acetate	112-15-2	0.3	0.000	

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				Di(propylene glycol) methyl ether acetate	88917-22-0	10.0	0.004	0.038
		Silkscreen	0.006	Legend	25085-99-8	51.0	0.020	
				Titanium Dioxide	13463-67-7	15.0	0.006	
				Talc (Mg3H2(SiO3)4)	14807-96-6	16.0	0.006	
				Tripropylene Glycol Diacrylate	42978-66-5	16.0	0.006	
				Silicon Dioxide	7631-86-9	2.0	0.001	
		ENIG	0.001	Silver	7440-22-4	20.0	0.001	0.006
				Nickel	7440-02-0	80.0	0.005	
11	Capacitors (X3)	Ceramic Dielectric	0.1377	Barium Titanium Oxide	12047-27-7	99.1	0.870	0.878
				Misc, not to Declare	Proprietary	0.9	0.008	
		Internal Electrode	0.0219	Nickel	7440-02-0	100.0	0.140	0.140
		Termination	0.0204	Copper	7440-50-8	47.1	0.061	0.130
				Miscellaneous	Proprietary	2.9	0.0038	
				Nickel	7440-02-0	11.8	0.015	
				Tin	7440-31-5	38.2	0.050	
12	Melexis	Lead Frame	0.02401	Copper	7440-50-8	99.9	0.153	0.153
				Zirconium	7440-67-7	0.1	0.000	
				Misc., not to Declare	Proprietary	0.1	0.000	
		Frame Plating	0.00024	Silver	7440-22-4	100.0	0.002	0.002
				Others	Proprietary	0.01	0.0000002	
		Die	0.00302	Silicon	7440-21-3	100.0	0.019	0.019
				Others	Proprietary	0.01	0.000002	
		IMC	0.000006	Iron	7439-89-6	19.8	0.00001	0.00004
				Nickel	7440-02-0	40.0	0.00002	
				Molybdenum	7439-98-7	40.0	0.00002	
				Others	Proprietary	0.3	0.0000001	
		Die Attach Material	0.00113	Silver	7440-22-4	76.0	0.005	0.007
				Epoxy Resin	Proprietary	23.0	0.002	
				Further Additives	Proprietary	1.0	0.0001	
Wire	0.0003	Gold	7440-57-5	99.0	0.002	0.002		

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				Palladium	7440-05-3	1.0	0.00002				
				Calcium	7440-70-2	0.1	0.000001				
				Lead Finish	0.00137	Tin	7440-31-5		100.0	0.009	0.009
				Others	Proprietary	0.01	0.000001				
		Encapsulation	0.08173	Silica Fused	60676-86-0	75.0	0.391	0.52			
				Silicon Dioxide	7631-86-9	12.5	0.065				
				Epoxy Resin	Proprietary	6.5	0.034				
				Phenol Resin	Proprietary	5.5	0.029				
				Carbon Black	1333-86-4	0.5	0.003				
		13	Solder Paste	Solder Paste	0.01	Tin	7440-31-5	86.0	0.055	0.064	
Silver	7440-22-4					5.0	0.003				
Rosin	65997-06-0					5.0	0.003				
2-Ethylhexane-1,3-Diol	94-96-2					3.0	0.002				
Misc, not to Declare	Proprietary					1.0	0.0006				
14	Conformal Coating	PUR-Lacquer	0.032	Polyurethane	Proprietary	99.4	0.203	0.204			
				Pigment Portion, not to Declare	Proprietary	0.2	0.0003				
				Cobalt Bis (2-Ethylhexanoate)	136-52-7	0.4	0.0009				
15	Solder Wire	Lead Free Solder	0.032	Tin	7440-31-5	96.5	0.197	0.204			
				Silver	7440-22-4	3.0	0.006				
				Copper	7440-50-8	0.5	0.001				
16	UV Epoxy	Epoxy	0.036	Caprolactone, Trimethylolpropane Polymer	37625-56-2	60.0	0.138	0.230			
				Aluminum Oxide	1344-28-1	30.0	0.069				
				Silica, Amorphous Fumed	112945-52-5	10.0	0.023				
		Total weight	15.685								

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This Document was updated on: 1/29/2026

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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