


MATERIAL DECLARATION SHEET



Material Number	AMM20B (16 turns)			
Product Line	Analog Magnetic Multiturn 20 mm			
Compliance Date	Since Inception			
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
1	Housing	PBT	2.92	Poly(butylene terephthalate)	30965-26-5	53.8	9.007495505	16.74256
				Glass Fiber	65997-17-3	30	5.022767010	
				Brominated flame retardant	Trade secret	11	1.841681237	
				Antimony Oxide	1309-64-4	4	0.669702268	
				Further additives not to declare	Trade secret	1.2	0.200910680	
2	Slider	Nylon 6/6	0.454	Polyhexamethylene Adipamide	32131-17-2	55	1.431717948	2.60312
				Glass Fiber	65997-17-3	30	0.780937063	
				PTFE	9002-84-0	13	0.338406060	
				Silicone	63148-62-9	2	0.052062471	
3	Cover	Nylon 9T	0.745	PA 9T	169284-22	43	1.836807548	4.27165
				Glass fiber	65997-17-3	34	1.452359456	
				Brominated Polystyrene	63148-62-9	23	0.982478456	
4	Bushing	Brass	4.126	Cooper	7440-50-8	61.5	14.549339111	23.65746
		Plating	0.187	Zinc	7440-66-6	35.5	8.398398999	
			Nickel	7439-92-1	3	0.709723859		
5	Shaft	Stainless Steel	6.124	Iron	7440-02-0	100	1.072211679	35.11350
				Chromium	7439-89-6	69.7	24.474108840	
				Nickel	7440-47-3	18	6.320429830	
				Nickel	7440-02-0	8.2	2.879306922	
				Manganese	7439-96-5	2	0.702269981	
				Silicon	7440-21-3	1	0.351134991	
				Molybdenum	7439-98-7	0.6	0.210680994	
				Phosphorus	7723-14-0	0.2	0.070226998	
				Carbon	7704-44-0	0.15	0.052670249	
				Sulfur	7704-34-9	0.15	0.052670249	
6	Bearing Lube	Lube	0.26	Hydrogenated trimer & tetramer of decene	68649-12-7	58.8	0.876576051	1.49078
				Ethylene/Propylene Copolymer	9010-79-1	30.8	0.459158884	
				Amorphous Silica	112945-52-5	5.4	0.080501882	
				Polytetrafluoroethylene	9002-84-0	5	0.074538780	
7	Bearing	Bronze	0.995	Copper	7440-50-8	88.9	5.071819261	5.70508
				Tin	7440-31-5	10	0.570508353	
				Iron	7439-89-6	0.5	0.028525418	
				Graphite	7440-50-8	0.1	0.005705084	
				Other	---	0.5	0.028525418	

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8	PCB Panel	PCB-Copper	0.0155	Copper	7440-50-8	100	0.088873161	0.08887	
		PCB-Laminate	0.277	Glass Fiber	65997-17-3	55	0.873537162	1.58825	
		Solder Resist	0.007	Phenol	26265-08-7	45	0.714712224	0.022837535	0.04014
				Bisphenol A epichlorohydrin polymer	25068-38-6	56.9	0.000802725		
				Talc	14807-96-6	2	0.005257851		
				Barium Sulfate	7727-43-7	13.1	0.001123815		
				Tri-2,1-ethanediyl triacrylate	40220-08-4	2.8	0.008027253		
				Quartz	14808-60-7	20	0.000160545		
				Hexabromo-decachloro-phthalocyaninato	14302-13-7	0.4	0.000040136		
				Cyanoguanidine	461-58-5	0.1	0.001886405		
		Further additives	---	4.7	0.033095218	0.03440			
		PCB-Metals	0.006	Nickel	7440-02-0		96.2	0.001307296	
		9	Capacitors X 3	Ceramic Body	0.0053	Gold	7440-57-5	3.8	0.014738610
Barium	7440-39-3					48.5	0.006138555		
Oxygen	7782-44-7					20.2	0.005105333		
Titanium	7440-32-6					16.8	0.004163278		
Nickel	7440-02-0					13.7	0.000243111		
Misc, not to declare	---			0.8	0.001832507	0.00390			
Soldering Termination	0.00068			Copper	7440-50-8		47	0.001458208	
				Tin	7440-31-5		37.4	0.000471773	
				Nickel	7440-02-0		12.1	0.000136463	
				Misc, not to declare	---		3.5	0.137472445	
		Copper	7440-50-8	99.9	0.000137610	0.13761			
Leadframe	0.024	Zirconium	7440-67-7	0.1	0.014906265		0.01491		
Die	0.0026	Silicon	7440-21-3	99.99	0.000000149				
Die Attach Adhesive	0.0011	Misc, not to declare	---	0.001	0.005045702	0.00631			
		Silver	7440-22-4	80	0.000946069				
10	ASIC	Bonding wire	0.0003	Epoxy Resin	---	15	0.000315356	0.00172	
				Additives, not to declare	---	5	0.001719954		
				Gold	7440-57-5	99.99	0.000000022		
		Lead finish	0.0014	Copper	7440-50-8	0.0013	0.000000022	0.00803	
				Palladium	7440-05-3	0.0013	0.000000021		
				Silicon	7440-21-3	0.0012	0.000000014		
				Magnesium	7439-95-4	0.0008	0.000000012		
				Arsenic	7440-38-2	0.0007	0.000000009		
				Bismuth	7440-69-9	0.0005	0.000000009		
				Lead	7439-92-1	0.0005	0.000000009		
				Iron	7439-89-6	0.0005	0.000000005		
				Tin	7440-31-5	0.0003	0.000000001		
				Manganese	7439-96-5	0.00008	0.000000001		
		Nickel	7440-02-0	0.00008	0.000000001	0.00803			
		Chromium	7440-47-3	0.00007	0.000000001				
		Tin	7440-31-5	99.46	0.007983906				
		Lead finish	0.0014	Carbon	7440-44-0	0.505	0.000040538	0.00803	
Lead	7439-92-1			0.015	0.00001204				
Sulfur	7704-34-9			0.02	0.00001605				

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		Encapsulation	0.0817	Silica, Vitreous	60676-86-0	87.7	0.410828512	0.46845
				Epoxy Resin	---	5	0.023422378	
				Phenolic Resin	---	5	0.023422378	
				Formaldehyde, Polymer w/(chloromethyl) oxirane and 2-methylphenol	29690-82-2	2	0.009368951	
				Carbon Black	1333-84-4	0.3	0.001405343	
		Plating	0.000006	Cobalt	7440-48-4	85	0.000029242	0.00003
				Silicon	7440-21-3	6	0.000002064	
				Manganese	7439-96-5	4	0.000001376	
				Iron	7439-89-6	3	0.000001032	
				Molybdenum	7439-98-7	2	0.000000688	
11	Magnet	Magnet	0.743	Iron	7439-89-6	67.5	2.875620120	4.26018
				Neodymium	7440-00-8	31	1.320655166	
				Boron	7440-42-8	1	0.042601780	
12	Terminal X 3	Phos, Bronze C51000	0.132	Nickel	7440-02-0	0.5	0.021300890	0.75686
				Copper	7440-50-8	94.8	0.717498827	
				Phosphorous	7723-14-0	0.2	0.001513711	
13	Retaining Ring	PH-15-7 Stainless Steel	0.039	Tin	7440-31-5	5	0.037842765	0.22362
				Iron	7439-89-6	69.6	0.155636972	
				Chromium	7440-47-3	16	0.035778614	
				Nickel	7440-02-0	7.42	0.016592332	
				Molybdenum	7439-98-7	3	0.006708490	
				Aluminum	7429-90-5	1.5	0.003354245	
				Silicon	7440-21-3	1	0.002236163	
				Manganese	7439-96-5	0.8	0.001788931	
				Carbon	7440-44-0	0.6	0.001341698	
				Phosphorus	7723-14-0	0.04	0.000089447	
				Sulfur	7704-34-9	0.04	0.000089447	
14	Retaining Ring	PH-15-7 Stainless Steel	0.095	Iron	7439-89-6	69.6	0.379115702	0.54471
				Chromium	7440-47-3	16	0.087153035	
				Nickel	7440-02-0	7.42	0.040417220	
				Molybdenum	7439-98-7	3	0.016341194	
				Aluminum	7429-90-5	1.5	0.008170597	
				Silicon	7440-21-3	1	0.005447065	
				Manganese	7439-96-5	0.8	0.004357652	
				Carbon	7440-44-0	0.6	0.003268239	
				Phosphorus	7723-14-0	0.04	0.000217883	
				Sulfur	7704-34-9	0.04	0.000217883	
				15	Washer	Stainless Steel	0.066	
Chromium	7440-47-3	18	0.068116977					
Nickel	7440-02-0	8.2	0.031031067					
Manganese	7439-96-5	2	0.007568553					
Silicon	7440-21-3	1	0.003784277					
Molybdenum	7439-98-7	0.6	0.002270566					
Phosphorus	7723-14-0	0.2	0.000756855					
Carbon	7440-44-0	0.15	0.000567641					
16	Solder	Solder	0.032	Sulfur	7704-34-9	0.15	0.000567641	0.18348
				Tin	7440-31-5	88	0.161462465	
				Silver	7440-22-4	7	0.012843605	
				Copper	7440-50-8	5	0.009174004	

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17	Solder paste	Solder paste	0.02	Tin	7440-31-5	88	0.100914040	0.11468
				Silver	7440-22-4	7	0.008027253	
				Copper	7440-50-8	5	0.005733752	
18	Epoxy	Epoxy	0.065	Cycloaliphatic epoxide	Trade secret	40	0.149077560	0.37269
				Silicon Dioxide	67762-90-7	25	0.093173475	
				Hydrated alumina	21645-51-2	20	0.074538780	
				Polytherpolyol resins	39072-02-1	15	0.055904085	
19	Conformal coating	Conformal coating	0.015	Modified polyurethane resins (PUR)	9009-54-5	100	0.086006284	0.08601
				Total Weight	17.440586			

This Document was updated on: December 11, 2015

Important remarks:

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

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