


MATERIAL DECLARATION SHEET



Material number	DMS22B series			
Product Line	Non-Contacting Analog Rotary Position Sensor			
Compliance Date	May 6th, 2019			
RoHS Compliant	Yes	MSL	N/A	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material/	CASRN	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
				Substances	if applicable			
1	Capacitor	Ceramic Body	0.01	Barium	7440-39-3	48.50	0.0227	0.05
				Oxygen	7782-44-7	20.20	0.0095	
				Titanium	7440-32-6	16.80	0.0079	
				Nickel	7440-02-0	14.50	0.0068	
		Soldering Termination	0.001	Copper	7440-50-8	47.00	0.0220	
				Tin	7440-31-5	37.40	0.0175	
2	Terminal	Brass C26000	0.2610	Copper	7440-50-8	70.00	0.951	1.437
				Zinc	7440-66-6	30.00	0.4076	
		Plating	0.0150	Tin	7440-31-5	100.00	0.07809	
3	Bushing	Brass 360	4.291	Copper	7440-50-8	62.00	13.85	32.73
				Zinc	7440-66-6	35.05	7.83	
				Iron	7439-89-6	0.35	0.08	
				Lead	7439-92-1	2.60	0.581	
		Shinkong D202G30 DF4886 Blue	1.974	PBT (Polybutylene terephthalate)	26062-94-2	54.25	5.575	

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				Glass Fiber	65997-17-3	32.00	3.289	
				brominated flame retardant	Trade Secret	10.50	1.079	
				Antimony trioxide	1309-64-4	2.50	0.257	
				Carbon black	1333-86-4	0.75	0.077	
		Plating	0.022	Nickel	7440-02-0	100.00	0.115	
4	Shaft	Stainless Steel	4.78	carbon	7440-44-0	0.18	0.04	0.002
				manganese	7439-96-5	2.00	0.50	
				phosphorus	7723-14-0	0.05	0.01	
				sulfur	7704-34-9	0.03	0.01	
				silicon	7440-21-3	0.75	0.19	
				chromium	7440-47-3	17.00	4.23	
				nickel	7440-02-0	8.00	1.99	
				iron	7439-89-6	72.00	0.25	
5	Rotor	Nylon 6/6	0.90	Polyhexamethylene Adipamide	32131-17-2	60.00	2.81	0.0005
				Molybdenum disulfide	1317-33-5	34.00	1.59	
				Glass Fiber	65997-17-3	4.00	0.19	
6	PCB Panel	PCB-Copper	0.02	Copper	7440-50-8	100.00	0.11	0.0002
		PCB-Laminate	0.38	Glass Fiber	65997-17-3	55.00	1.10	
				Phenol	26265-08-7	45.00	0.90	
		PCB-Metals	0.001	Gold	7440-57-5	3.80	0.0002	
				Nickel	7440-02-0	96.20	0.0042	
		Solder Resist	0.01	Bisphenol A, epichlorohydrin polymer	25068-38-6	56.90	0.03	
				Talc	14807-96-6	4.00	0.002	
				Barium Sulfate	7727-43-7	13.10	0.01	
				Tri-2, 1-ethanediyl triacrylate	40220-08-4	4.50	0.002	
				Quartz	14808-60-7	20.00	0.01	

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				Hexabromo-decachloro-phthalocyaninato	14302-13-7	0.40	0.0002	
				Cyanoguanidine	461-58-5	0.60	0.0003	
7	Epoxy Conductive	Epoxy	0.0100	Cycloaliphatic epoxide	trade secret	40.00	0.0208	0.0000052
				Polyetherpolyol resins	39072-02-1	15.00	0.0078	
				Silicon dioxide	67762-90-7	25.00	0.0130	
				Hydrated alumina	21645-51-2	20.00	0.010	
8	Washer	Stainless Steel 301	0.16	carbon	7440-44-0	0.15	0.001	0.00008
				manganese	7439-96-5	2.00	0.02	
				phosphorus	7723-14-0	0.05	0.0004	
				sulfur	7704-34-9	0.03	0.0002	
				silicon	7440-21-3	1.00	0.01	
				chromium	7440-47-3	17.00	0.14	
				nickel	7440-02-0	7.00	0.058	
				iron	7439-89-6	72.78	0.61	
9	Lockwasher	Stainless Steel 302	0.13	carbon	7440-44-0	0.18	0.001	0.00007
				manganese	7439-96-5	2.00	0.014	
				phosphorus	7723-14-0	0.05	0.0003	
				sulfur	7704-34-9	0.03	0.0002	
				silicon	7440-21-3	0.75	0.005	
				chromium	7440-47-3	17.00	0.117	
				nickel	7440-02-0	8.00	0.055	
				iron	7439-89-6	72.00	0.495	
10	Bearing	Bronze	1.00	Copper	7440-50-8	88.90	4.605	0.0005
				Tin	7440-31-5	10.00	0.518	
				Iron	7439-89-6	0.90	0.047	
				Graphite	7440-66-6	0.20	0.010	
11	Housing	PBT	1.95	Poly(butylene terephthalate)	11211-39-3	53.80	5.45	0.001
				Glass Fiber	65997-17-3	30.00	3.04	

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				Brominated flame retardant	Trade secret	11.00	1.11	
				Antimony Oxide	1309-64-4	5.20	0.53	
12	Retaining Ring	Stainless Steel	0.02	carbon	7440-44-0	0.15	0.0002	0.00001
				manganese	7439-96-5	2.00	0.002	
				phosphorus	7723-14-0	0.05	0.00005	
				sulfur	7704-34-9	0.03	0.00003	
				silicon	7440-21-3	1.00	0.001	
				chromium	7440-47-3	17.00	0.02	
				nickel	7440-02-0	7.00	0.01	
iron	7439-89-6	72.78	0.08					
13	Solder	SAC305	0.18	Tin	7440-31-5	96.50	0.90	0.00009
				Silver	7440-22-4	3.00	0.03	
				Copper	7440-50-8	0.50	0.005	
				Epoxy resin	25085-99-8	51.00	0.48	
				Silicon Dioxide	14808-60-7	34.00	0.32	
				Kaolin Clay	1332-58-7	15.00	0.14	
14	Substrate	Ceramic	3.10	Aluminum oxide	1344-28-1	96.00	15.49	0.00161
				silicon dioxide	7631-86-9	2.00	0.32	
				magnesium oxide	1309-48-4	1.00	0.16	
				calcium oxide	1305-78-8	1.00	0.16	
		Total Weight	19.21					

This Document was updated on: 5/7/2019

Important remarks:

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