


# MATERIAL DECLARATION SHEET



Material Number	3590S-2-L			
Product Line	Sensors & Controls			
Compliance Date	6/9/2023			
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	Hex Nut	Brass C260	0.0080	Copper	7440-50-8	70	0.032	0.05
				zinc	7440-66-6	30	0.0136	
		Plating		Nickel	7440-02-0	100	0.05	
2	Lockwasher	Stainless Steel 304	0.0110	carbon	7440-44-0	0.18	0.0001	0.06
				manganese	7439-96-5	2	0.001	
				phosphorus	7723-14-0	0.045	0.00003	
				sulfur	7704-34-9	0.03	0.00002	
				silicon	7440-21-3	0.75	0.000	
				chromium	7440-47-3	17	0.01	
				nickel	7440-02-0	8	0.00	
				iron	7439-89-6	71.995	0.04	
		Plating		Nickel	7440-02-0	100	0.06	
3	Epoxy	UV-2665 EPOXY	0.1280	Epoxy resin	2386-87-0	65	0.030	0.73
				Caprolacton, trimethylpropan polymer	37625-56-2	20	0.15	
				Aluminum trioxide	1344-28-1	10	0.07	
				Hydrophobic pyrogenic silica	112945-52-5	3.5	0.025	
				Propylene carbonate	108-32-7	1.5	0.011	
4	Housing	ShinKong compound	3.15	PBT	30965-26-5	49	8.76	17.88

# MATERIAL DECLARATION SHEET



		(Blue)		glass fiber	65997-17-3	35	6.26	
				brominated epoxy resin	68928-70-1	10	1.79	
				antimony trioxide	1309-64-4	6	1.07	
5	Terminal (x2)	Copper CDA 194	0.242	Copper	7440-50-8	97.4	1.34	1.41
				Iron	7439-89-6	2.4	0.0330	
				Zinc	7440-66-6	0.15	0.0021	
				Phosphorus	7723-14-0	0.05	0.0007	
		Plating	0.004	Tin	7440-31-5	100	1.3736	
		Inlay	0.002	Silver	7440-22-4	100	1.3736	
6	Bushing	Zamak Alloy #5	2.67	Aluminum	7429-90-5	4.3	0.6517	15.16
				Copper	7440-50-8	1.25	0.1894	
				Magnesium	7439-95-4	0.008	0.0012	
				Iron	7439-89-6	0.1	0.0152	
				Lead	7439-92-1	0.005	0.0008	
				Cadmium	7440-31-5	0.004	0.0006	
				Tin	7440-31-5	0.003	0.0005	
				Zinc	7440-66-6	94.33	14.2959	
7	Mandrel Wire	Copper	2.253	Copper	7440-50-8	100	12.79	12.79
8	Resist Wire	Copper Alloys C11400	0.1367	Copper	7440-50-8	99.99	0.78	0.78
				Oxygen	7782-44-7	0.009	0.0001	
				Phosphorus	7723-14-0	0.0003	0.00000	
				Tellurium	13494-80-9	0.0007	0.00001	
9	Collector Bar	BeCu CA-172 alloy 25	0.031	Beryllium	7440-41-7	1.9	0.003	0.20
				Copper	7440-50-8	97.48	0.17	
				Cobalt	7440-48-4	0.2	0.0004	
				Nickel	7440-02-0	0.2	0.0004	
				Iron	7439-89-6	0.2	0.0004	
				Lead	7439-92-1	0.02	0.00004	

# MATERIAL DECLARATION SHEET



		Plating	0.004	Gold	7440-57-5	100	0.02	
10	Lube	NYE N799	0.008	Decanoic acid, mixed esters with heptanoic acid, octanoic acid, trimethylolpropane	68130-53-0	54.4	0.02	0.05
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.003	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.02	
				Polyisobutylene	9003-27-4	5.2	0.002	
11	Lube	NYE 774F	0.008	1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	68649-12-7	58.8	0.027	0.05
				1-Propene, polymer with ethene	9010-79-1	30.8	0.014	
				Silica, amorphous fumed	112945-52-5	5.4	0.002	
				Ethene, tetrafluoro-, homopolymer	9002-84-0	5	0.002	
12	Lid	ShinKong compound (Blue)	1.844	PBT	30965-26-5	49	5.13	10.47
				glass fiber	65997-17-3	35	3.66	
				brominated epoxy resin	68928-70-1	10	1.05	
				antimony trioxide	1309-64-4	6	0.63	
13	Rotor/Shaft Molded	GS-51 Nylatron	2.234	nylon 6.6 (polyhexamethylene adipamide)	32131-17-2	66	8.37	12.68
				glass fiber	65997-17-3	32	4.06	
				molybdenum disulfide	1317-33-5	2	0.254	

# MATERIAL DECLARATION SHEET



14	Slider Molded	GS-51 Nylatron	0.11	nylon 6.6 (polyhexamethylene adipamide)	32131-17-2	66	0.41	0.62
				glass fiber	65997-17-3	32	0.20	
				molybdenum disulfide	1317-33-5	2	0.01	
15	Contact Spring	Alloy B540	0.008	Silver	7440-22-4	29	0.01	0.05
				Copper	7440-50-8	14.5	0.01	
				Gold	7440-57-5	10.5	0.005	
				Platinum	744-06-4	10.5	0.005	
				Zinc	7440-66-6	1.2	0.001	
				Paladium	7440-05-3	34.3	0.02	
16	Cover	ShinKong compound (Blue)	1.388	PBT	30965-26-5	49	3.86	7.88
				glass fiber	65997-17-3	35	2.76	
				brominated epoxy resin	68928-70-1	10	0.788	
		Phosphor Bronze CDA 510	1.428	Lead	7439-92-1	0.05	0.004	8.11
				Zinc	7440-66-6	0.3	0.02	
				Iron	7439-89-6	0.10	0.008	
				Tin	7440-31-5	5.80	0.47	
				Phosphorus	7723-14-0	0.35	0.028	
				Copper	7440-50-8	93.40	7.57052	
17	Terminal Wiper	Phosphor Bronze CDA 510	1.95	Lead	7439-92-1	0.05	0.01	11.07
				Zinc	7440-66-6	0.3	0.033	
				Iron	7439-89-6	0.10	0.011	
				Tin	7440-31-5	5.80	0.642	
				Phosphorus	7723-14-0	0.35	0.039	
				Copper	7440-50-8	93.40	10.338	

# MATERIAL DECLARATION SHEET



18	Retaining Ring	Stainless Steel 420	0.082	Carbon	7440-44-0	0.15	0.001	0.47
				Silicon	7440-21-3	1.00	0.005	
				Manganese	7439-96-5	1.00	0.005	
				phosphorus	7723-14-0	0.04	0.0002	
				Sulfur	7704-34-9	0.03	0.0001	
				Chromium	7440-47-3	14.00	0.065	
				Iron	7439-89-6	83.78	0.390	
19	Shaft	Brass C360	2.234	copper	7440-50-8	61.50	7.798	12.68
				zinc	7440-66-6	35.40	4.489	
				lead	7439-92-2	3.10	0.393	
		Total weight	17.6177					

**This Document was updated on: 6/9/2023**

**Important remarks:**

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