


# MATERIAL DECLARATION



Material Number	3548S-1xE-xxxx			
Product Line	Sensors & Controls			
Compliance Date	1/28/2025			
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	Ball Bearing	Stainless Steel 400C Martensitic	0.3000	Chromium	7440-47-3	13	0.127	0.98
				Carbon	7440-44-0	0.15	0.001	
				Silicon	7440-21-3	1	0.010	
				Manganese	7439-96-5	1	0.010	
				Iron	7439-89-6	84.85	0.831	
2	Servo Lid	Aluminum 2011	0.00406	Silicon	7440-21-3	0.4	0.0001	0.01
				Iron	7439-89-6	0.7	0.0001	
				Copper	7440-50-8	5	0.00066	
				Zinc	7440-66-6	0.3	0.00004	
				Misc., not to declare	Trade Secret	0.15	0.00002	
				Aluminum	7429-90-5	92.925	0.01	
				Bismuth	7440-69-9	0.325	0.00004	
Lead	7439-92-1	0.2	0.00003					
3	Terminal Wiper	Brass C260	0.3000	Copper	7440-50-8	70	0.686	0.98
		Under Plating	0.0120	Zinc	7440-66-6	30	0.29	
		Finish Plating	0.0274	Nickel	7440-02-0	100	0.039	
				Gold	7440-57-5	100	0.089	
4	Cover	GS-51 Nylatron	1.642004	Nylon 6.6 (polyhexamethylene adipamide)	32131-17-2	66	3.54	5.36

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				Glass Fiber	65997-17-3	32	1.72	
				Molybdenum Disulfide	1317-33-5	2	0.11	
5	Housing	ShinKong compound (Black)	7.893	PBT	30965-26-5	49	12.63	25.78
				Gass fiber	65997-17-3	35	9.0218	
				Brominated epoxy resin	68928-70-1	10	2.5776	
				Antimony trioxide	1309-64-4	6	1.5466	
				Phenolic Resin	9003-35-4	100	0.1698	
6	Varnish	Varnish	0.052					0.17
7	Mandrel Wire	Annealed Copper Wire	1.6848122	Copper	7440-50-8	100	5.50	5.50
		Coating	0.0000312	Polyamide	63428-83-1	100	0.00010	0.0001
8	Resist Wire	Nickel/Chromium Alloy	0.07595	Nickel	7440-02-0	74	0.18	0.25
				Copper	7440-50-8	1	0.002	
				Chromium	7440-47-3	21	0.05	
				Aluminum	7429-90-5	1	0.002	
				Silicon	7440-21-3	1	0.002	
				Cobalt	7440-48-4	1	0.002	
				Manganese	7439-96-5	1	0.002	
9	Collector Bar	Nickel/Silver C762	0.063	Copper	7440-50-8	55	0.113	0.21
				Nickel	7440-02-0	18	0.04	
				Zinc	7440-66-6	27	0.0556	
		Plating	0.002	Gold	7440-57-5	100	0.007	0.007
10	Lube	NYE N799	0.1	Decanoic acid, mixed esters with heptanoic acid, octanoic acid, trimethylolpropane	68130-53-0	54.4	0.18	0.33
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.019	

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				Isohexadecyl- isooctadecanoate	52006-45- 8	33.7	0.11	
				Polyisobutylene	9003-27-4	6.2	0.020	
11	Lube	Versiblube G321	0.00815	Siloxanes and Silicones, di-Me, di-Ph	68083-14- 7	68.9	0.018	0.03
				Lithium stearate	4485-12-5	25.4	0.007	
				Silane, dichlorodimethyl- reaction products with silica	68611-44- 9	4.8	0.001	
				Diphenylamine	122-39-4	0.9	0.0002	
12	Epoxy	BLUE EPOXY E940	0.00563	Epoxy resin	25068-38- 6	48	0.009	0.018
				Epoxy resin	25085-99- 8	10	0.0018	
				Aluminum trihydrate	21645-51- 2	21	0.004	
				Magnesium alumino silicate	1327-43-1	9.3	0.0017	
				Kaolin hydrous	1332-58-7	6	0.0011	
				Resin	2210-79-9	4.2	0.0008	
				Titanium dioxide	13463-67- 7	1	0.00018	
				Pigment	147-14-8	0.5	0.00009	
13	Rotor Molded	GS-51 Nylatron	2.74877	Nylon 6.6 (polyhexamethylene adipamide)	32131-17- 2	66	5.92	8.98
				Glass Fiber	65997-17- 3	32	2.87	
				Molybdenum Disulfide	1317-33-5	2	0.180	
14	Slider Molded	GS-51 Nylatron	0.7937866	Nylon 6.6 (polyhexamethylene adipamide)	32131-17- 2	66	1.711	2.59
				Glass Fiber	65997-17-	32	0.830	

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					3			
				Molybdenum Disulfide	1317-33-5	2	0.052	
15	Lid Molded	ShinKong compound (Black)	2.2112628	PBT	30965-26-5	49	3.538	7.22
				Gass fiber	65997-17-3	35	2.527	
				Brominated epoxy resin	68928-70-1	10	0.722	
				Antimony trioxide	1309-64-4	6	0.433	
				Copper	7440-50-8	72.875	0.02	
16	Contact Spring	Pfinodal 7 C72900	0.01	Lead	7439-92-1	0.025	0.00001	0.03
				Iron	7439-89-6	0.3	0.0001	
				Nickel	7440-02-0	21	0.0069	
				Cobalt	7440-48-4	0.25	0.0001	
				Tin	7440-31-5	5.1	0.001666	
				Manganese	7439-96-5	0.3	0.000098	
				Misc	Not to declare	0.15	0.000049	
				Palladium	7440-05-3	39.8	0.003899	
		Paliney #6	0.003	Silver	7440-22-4	33.9	0.003321	0.01
				Copper	7440-50-8	24.2	0.002371	
				Platinum	7440-06-4	0.5	0.000049	
				Nickel	7440-02-0	1.59	0.000156	
				Zinc	7440-66-6	0.01	0.000001	
17	Shaft	Stainless Steel 303	6.89	Carbon	7440-44-0	0.15	0.03	22.50
				Manganese	7439-96-5	2	0.45	
				Phosphorus	7723-14-0	0.2	0.05	
				Sulfur	7704-34-9	0.15	0.03	
				Silicon	7440-21-3	0.9	0.20	
				Chromium	7440-47-3	18	4.05	
				Nickel	7440-02-0	9	2.03	
				Iron	7439-89-6	69	15.53	

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				Molybdenum	7439-98-7	0.6	0.14	
19	Retaining Ring	Stainless Steel 420	0.009	Carbon	7440-44-0	0.15	0.00004	0.03
				Manganese	7439-96-5	1.00	0.0003	
				Silicon	7440-21-3	1.00	0.0003	
				Phosphorous	7723-14-0	0.04	0.00001	
				Sulfur	7704-34-9	0.30	0.00009	
				Chromium	7440-47-3	14.00	0.004	
				Iron	7439-89-6	83.51	0.025	
20	Bushing	Brass C360	3.71	Copper	7440-50-8	61.50	7.451	12.12
				Zinc	7440-66-6	35.40	4.289	
				Lead	7439-92-2	3.10	0.376	
21	T.R. Terminal x2	Nickel/Silver C752	0.164	Copper	7440-50-8	65.00	0.348	0.54
				Nickel	7440-02-0	18.00	0.096	
				Zinc	7440-66-6	17.00	0.091	
		Solder Inlay	0.0001	Silver	7440-22-4	56.00	0.0002	0.0003
				Copper	7440-50-8	22.00	0.0001	
				Zinc	7440-66-6	17.00	0.00006	
				Tin	7440-31-5	5.00	0.00002	
Plating	0.00074	Gold	7440-57-5	100.00	0.002	0.002		
22	T.R. Pin Strip	Nickel Silver CDA752	0.249	Nickel	7440-02-0	18.00	0.146	0.813
				Copper	7440-50-8	65.00	0.529	
				Zinc	7440-66-6	17.00	0.138	
23	Terminal Cover	GS-51 Nylatron	1.367581	Nylon 6.6 (polyhexamethylene adipamide)	32131-17-2	66.00	2.948	4.47
				Glass fiber	65997-17-3	32.00	1.429	
				Molybdenum disulfide	1317-33-5	2.00	0.089	
24	Tab	Silver Alloy A56T	0.013312288	Silver	7440-22-4	56.00	0.0243	0.04
				Copper	7440-50-8	22.00	0.0096	

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				Zinc	7440-66-6	17.00	0.0074	
				Tin	7440-31-5	5.00	0.0022	
		Strip	0.1924	Nickel	7440-02-0	100.00	0.0435	0.63
25	Lid Resin	Valox 420	0.003	PBT	30965-26-5	55.00	0.0054	0.01
				Glass Fiber	65997-17-3	30.00	0.002939	
				Antimony Trioxide	1309-64-4	4.00	0.000392	
				Brominated FR (TBBPA polycarbonate polymer)	trade secret	11.00	0.001078	
26	Insert	Aluminum 2011	0.085	Silicon	7440-21-3	0.40	0.001110	0.28
				Iron	7439-89-6	0.70	0.001943	
				Copper	7440-50-8	5.00	0.013879	
				Zinc	7440-66-6	0.30	0.000833	
				Misc., not to declare	Trade Secret	0.15	0.000416	
				Aluminum	7429-90-5	92.93	0.257948	
				Bismuth	7440-69-9	0.33	0.000902	
				Lead	7439-92-1	0.20	0.000555	
		Total weight	30.6210					

**This Document was updated on: 01/28/2024**

**Important remarks:**

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