


MATERIAL DECLARATION SHEET



Material Number	3548H-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	0.116	0.89
				Carbon	7440-44-0	0.15	0.001	
				Silicon	7440-21-3	1	0.009	
				Manganese	7439-96-5	1	0.009	
				Iron	7439-89-6	84.85	0.757	
2	Servo Lid	Aluminum 2011	0.00406	Silicon	7440-21-3	0.4	0.0000	0.01
				Iron	7439-89-6	0.7	0.0001	
				Copper	7440-50-8	5	0.00060	
				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	0.00002					
3	Terminal Wiper	Brass C260	0.3000	Copper	7440-50-8	70	0.624	0.89
				Zinc	7440-66-6	30	0.27	
		Under Plating	0.0120	Nickel	7440-02-0	100	0.036	
		Finish Plating	0.0274	Gold	7440-57-5	100	0.081	
4	Cover	GS-51 Nylatron	1.642004	Nylon 6.6 (polyhexamethylene adipamide)	32131-17-2	66	3.22	4.88

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				Glass Fiber	65997-17-3	32	1.56	
				Molybdenum Disulfide	1317-33-5	2	0.10	
5	Housing	ShinKong compound (Black)	7.893	PBT	26062-94-2	53.7	12.60	23.47
				Glass Fiber	65997-17-3	30	7.0396	
				Brominated Epoxy Resin	68928-70-1	10.5	2.4638	
				Antimony Trioxide	1309-64-4	3	0.7040	
				Pigment Blue 15	147-14-8	0.8	0.1877	
				Further Additives, not to declare	N/A	2	0.4693	
6	Varnish	Varnish	0.052	Phenolic Resin	9003-35-4	100	0.1546	0.15
7	Mandrel Wire	Annealed Copper Wire	4.11068	Copper	7440-50-8	100	12.22	12.22
		Coating	0.0000312	Polyamide	63428-83-1	100	0.00009	0.0001
8	Resist Wire	Nickel/ Chromium Alloy	0.71	Nickel	7440-02-0	74	1.56	2.11
				Copper	7440-50-8	1	0.021	
				Chromium	7440-47-3	21	0.44	
				Aluminum	7429-90-5	1	0.021	
				Silicon	7440-21-3	1	0.021	
				Cobalt	7440-48-4	1	0.021	
				Manganese	7439-96-5	1	0.021	
9	Collector Bar	Nickel/Silver C762	0.063	Copper	7440-50-8	55	0.103	0.19
				Nickel	7440-02-0	18	0.03	
				Zinc	7440-66-6	27	0.0506	
		Plating	0.002	Gold	7440-57-5	100	0.006	0.006

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10	Lube	NYE N799	0.1	Decanoic acid, mixed esters with heptanoic acid, octanoic acid, trimethylolpropane	68130-53-0	54.4	0.16	0.30
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.017	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.10	
				Polyisobutylene	9003-27-4	6.2	0.018	
11	Epoxy	BLUE EPOXY E940	0.00563	Epoxy Resin	25068-38-6	64	0.011	0.017
				Antimony Trioxide	1309-64-4	11	0.0018	
				Aluminum Oxide	1344-28-1	10	0.002	
				Kaolin Clay	1332-58-7	6	0.0010	
				Magnesium Aluminum Silicate	1327-43-1	9	0.0015	
12	Rotor Molded	GS-51 Nylatron	2.74877	Nylon 6.6 (polyhexamethylene adipamide)	32131-17-2	66	5.39	8.17
				Glass Fiber	65997-17-3	32	2.61	
				Molybdenum Disulfide	1317-33-5	2	0.163	
13	Slider Molded	GS-51 Nylatron	0.7937866	Nylon 6.6 (polyhexamethylene adipamide)	32131-17-2	66	1.558	2.36
				Glass Fiber	65997-17-3	32	0.755	
				Molybdenum Disulfide	1317-33-5	2	0.047	
14	Lid Molded	ShinKong compound (Black)	2.2112628	PBT	26062-94-2	53.7	3.530	6.57
				Glass Fiber	65997-17-3	30	1.972	
				Brominated Epoxy Resin	68928-70-	10.5	0.690	

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				1				
				Antimony Trioxide	1309-64-4	3	0.197	
				Pigment Blue 15	147-14-8	0.8	0.053	
				Further Additives, not to declare	N/A	2	0.131	
15	Contact Spring	Pfinodal 7 C72900	0.01	Copper	7440-50-8	72.875	0.02	0.03
				Lead	7439-92-1	0.025	0.00001	
				Iron	7439-89-6	0.3	0.0001	
				Nickel	7440-02-0	21	0.0062	
				Cobalt	7440-48-4	0.25	0.0001	
				Tin	7440-31-5	5.1	0.001516	
				Manganese	7439-96-5	0.3	0.000089	
				Misc	Not to declare	0.15	0.000045	
	Paliney #6	0.003	Palladium	7440-05-3	39.8	0.003550	0.01	
			Silver	7440-22-4	33.9	0.003023		
			Copper	7440-50-8	24.2	0.002158		
			Platinum	7440-06-4	0.5	0.000045		
			Nickel	7440-02-0	1.59	0.000142		
16	Shaft	Stainless Steel 303	6.89	Zinc	7440-66-6	0.01	0.000001	20.48
				Carbon	7440-44-0	0.15	0.03	
				Manganese	7439-96-5	2	0.41	
				Phosphorus	7723-14-0	0.2	0.04	
				Sulfur	7704-34-9	0.15	0.03	
				Silicon	7440-21-3	0.9	0.18	
				Chromium	7440-47-3	18	3.69	
				Nickel	7440-02-0	9	1.84	
17	Retaining Ring	Stainless Steel 420	0.009	Iron	7439-89-6	69	14.13	0.03
				Molybdenum	7439-98-7	0.6	0.12	

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				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	0.00008	
				Chromium	7440-47-3	14.00	0.004	
				Iron	7439-89-6	83.51	0.022	
18	Bushing	Brass C360	3.71	Copper	7440-50-8	61.50	6.783	11.03
				Zinc	7440-66-6	35.40	3.904	
				Lead	7439-92-2	3.10	0.342	
19	T.R. Terminal x2	Nickel/Silver C752	0.164	Copper	7440-50-8	65.00	0.317	0.49
				Nickel	7440-02-0	18.00	0.088	
				Zinc	7440-66-6	17.00	0.083	
		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	0.00005	
				Tin	7440-31-5	5.00	0.00001	
Plating	0.00074	Gold	7440-57-5	100.00	0.002	0.002		
20	T.R. Pin Strip	Nickel Silver CDA752	0.249	Nickel	7440-02-0	18.00	0.133	0.740
				Copper	7440-50-8	65.00	0.481	
				Zinc	7440-66-6	17.00	0.126	
21	Terminal Cover	GS-51 Nylatron	1.367581	Nylon 6.6 (polyhexamethylene adipamide)	32131-17-2	66.00	2.683	4.07
				Glass fiber	65997-17-3	32.00	1.301	
				Molybdenum disulfide	1317-33-5	2.00	0.081	
22	Lid Resin	Valox 420	0.003	PBT	30965-26-5	55.00	0.0049	0.01
				Glass Fiber	65997-17-3	30.00	0.002676	
				Antimony Trioxide	1309-64-4	4.00	0.000357	

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				Brominated FR (TBBPA polycarbonate polymer)	trade secret	11.00	0.000981	
23	Insert	Aluminum 2011	0.085	Silicon	7440-21-3	0.40	0.001011	0.25
				Iron	7439-89-6	0.70	0.001769	
				Copper	7440-50-8	5.00	0.012635	
				Zinc	7440-66-6	0.30	0.000758	
				Misc., not to declare	Trade Secret	0.15	0.000379	
				Aluminum	7429-90-5	92.93	0.234819	
				Bismuth	7440-69-9	0.33	0.000821	
				Lead	7439-92-1	0.20	0.000505	
24	Ink	138:Hyb. Beta/Gamma(23/77) Ink	0.17	3-chloroprop-1-ene, formaldehyde, phenol	28470-78-2	38.00	0.192050	0.51
				Carbon Black	1333-86-4	20.70	0.104617	
				Diallyl Isophthalate	1087-21-4	35.80	0.180932	
				Graphite	7782-42-5	5.50	0.027797	
		Total weight	33.6370					

This Document was updated on: 01/28/2025

Important remarks:

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