


MATERIAL DECLARATION SHEET



Material number	3310H-L			
Product Line	Sensors & Controls			
Compliance Date	10/14/2024			
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	Lockwasher	Stainless Steel 304	0.049	Carbon	7440-44-0	0.080	0.002	2.70
				Manganese	7439-96-5	2.000	0.054	
				Phosphorus	7723-14-0	0.045	0.001	
				Sulfur	7704-34-9	0.030	0.001	
				Silicon	7440-21-3	0.750	0.020	
				Chromium	7440-47-3	18.000	0.487	
				Nickel	7440-02-0	8.000	0.216	
				Iron	7439-89-6	71.095	1.922	
		Under plating	0.001	Copper	7440-50-8	100.000	0.0552	0.06
Plating	0.001	Nickel	7440-02-0	100.000	0.0552	0.06		
2	Hexnut	Brass C360	0.0819	Copper	7440-50-8	61.50	2.779	4.52
				Zinc	7440-66-6	35.40	1.600	
				Lead	7439-92-1	3.10	0.140	
		Plating	0.0001	Nickel	7440-02-0	100.00	0.006	0.006
3	Resistive Ink 1	Minico M-2013	0.000005	Carbon black	1333-86-4	67.00	0.0002	0.0003
				Talc	14807-96-6	29.00	0.00008	
				Additives not to declare	trade secret	4.00	0.000011	
4	Resistive Ink 2	Minico M-2014	0.000002	Carbon black	1333-86-4	67.00	0.0001	0.0001

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				Talc	14807-96-6	29.00	0.00003	
				additives not to declare	trade secret	4.00	0.000004	
5	Resistive Ink 3	Minico M-2012	0.000003	Carbon black	1333-86-4	67.00	0.000111	0.0002
				Talc	14807-96-6	29.00	0.000048	
				additives not to declare	trade secret	4.00	0.000007	
6	Termination Ink 1	8120D Ink	0.000005	Silver	7440-22-4	96.00	0.000265	0.0003
				Copper Oxide	1317-39-1	1.20	0.000003	
				Bismuth Trioxide	1304-76-3	1.20	0.000003	
				Lead Borate	10214-39-8	1.60	0.000004	
7	Termination Ink 2	9406 Ink	0.000005	Silver	7440-22-4	88	0.00024	0.00028
				Palladium	7440-05-3	6	0.00002	
				Lead glass	7439-92-1	1.9	0.000005	
				Bismuth Trioxide	1304-76-3	2.9	0.00001	
				Copper Oxide	1317-39-1	1.2	0.000003	
8	Wire 1	Copper Alloy C102	0.114	Copper	7440-50-8	99.999	6.290	6.29
				Oxygen	7782-44-7	0.001	0.000063	
		Plating	0.018	Tin	7440-31-5	100.00	0.99	0.99
9	6 UP Substrate	Aluminum Oxide	0.154	Aluminum Oxide	1344-28-1	100.00	8.50	8.50
10	Housing	Shinkong compound	0.96	PBT	30965-26-5	49	52.96	52.96
				Glass Fibers	65997-17-3	35	25.95	
				Brominated epoxy resin	68928-70-1	10	18.54	
				Antimony trioxide	1309-64-4	6	5.30	
11	Rotor/Shaft	Shinkong compound	0.2594	PBT	30965-26-5	49	7.01	14.31
				Glass Fibers	65997-17-3	35	5.01	
				Brominated epoxy resin	68928-70-1	10	1.431	
				Antimony trioxide	1309-64-4	6	0.859	
12	Wire 2	Copper Alloy C102	0.00046	Copper	7440-50-8	99.999	0.0254	0.025
				Oxygen	7782-44-7	0.001	0.0000	
		Plating	0.018	Silver	7440-22-4	100.00	0.9931	0.993
13	Substrate	Cermet Substrate	0.1217	Aluminum oxide	1344-28-1	96.00	6.4458	6.714
				Silicon Dioxide	7631-86-9	2.00	0.1343	

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				Magnesium Oxide	1309-48-4	1.00	0.0671	
				Calcium Oxide	1305-78-8	1.00	0.0671	
14	O-Ring	Silicon Rubber	0.0113	Silicon Rubber	63394-02-5	100.00	0.62	0.623
15	Contact Spring	Nickel/Silver C762 Wire	0.0003	Copper	7440-50-8	55.00	0.00910	0.01655
				Nickel	7440-02-0	18.00	0.00298	
				Zinc	7440-66-6	27.00	0.00447	
		Strip	0.0002	Nickel	7440-02-0	100.00	0.01103	0.01103
16	Contact Spring Primary	Nickel/Silver C762	0.005	Copper	7440-50-8	55.00	0.15	0.27586
				Nickel	7440-02-0	18.00	0.05	
				Zinc	7440-66-6	27.00	0.07	
		Nickel Strip Inlay	0.003	Silver	7440-22-4	56.00	0.09	0.16552
				Copper	7440-50-8	22.00	0.04	
				Zinc	7440-66-6	17.00	0.03	
		Strip	0.003	Tin	7440-31-5	5.00	0.01	0.16552
				Nickel	7440-02-0	18.00	0.03	
				Copper	7440-50-8	65.00	0.11	
		Back up Strip Solder	0.0001	Zinc	7440-66-6	17.00	0.03	0.00552
				Silver	7440-22-4	5.20	0.0003	
				Bismuth	7440-69-9	0.30	0.00002	
Laminated Back Up Strip Brass C260	0.00454	Tin	7440-31-5	94.50	0.01	0.25048		
		Copper	7440-50-8	70.00	0.18			
		Zinc	7440-66-6	30.00	0.08			
17	Contact Spring Secondary	Nickel/Silver C770	0.005	Copper	7440-50-8	59.00	0.16	0.276
				Nickel	7440-02-0	12.00	0.03	
				Zinc	7440-66-6	29.00	0.08	
18	Lube	Lube	0.0015	Siloxanes/Silicones	63148-56-1	70.00	0.06	0.083
				Tetrafluoroethane	9002-84-0	30.00	0.02	
Total Weight			1.81					

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Important remarks:

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