

MATERIAL DECLARATION



Material Number	6639S		
Product Line	Sensors & Controls		
Compliance Date	5/14/2024		
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	Hex Nut	Brass C260	0.0079	Copper	7440-50-8	70	0.026	0.04
				Zinc	7440-66-6	30	0.0110	
		Plating	0.0001	Nickel	7440-02-0	100	0.04	
2	Lockwasher	Stainless Steel 304	0.0490	Carbon	7440-44-0	0.18	0.0004	0.23
				Manganese	7439-96-5	2	0.005	
				Phosphorus	7723-14-0	0.045	0.00010	
				Sulfur	7704-34-9	0.03	0.00007	
				Silicon	7440-21-3	0.75	0.002	
				Chromium	7440-47-3	17	0.04	
				Nickel	7440-02-0	8	0.02	
				Iron	7439-89-6	71.995	0.16	
		Plating	0.0010	Nickel	7440-02-0	100	0.23	
3	Terminal	Brass C360	0.1250	Copper	7440-50-8	61.5	0.023	0.58
				Zinc	7440-66-6	35.4	0.21	
				Lead	7439-92-2	3.1	0.02	
		Under Plating	0.000057	Nickel	7440-02-0	100	0.0003	
		Finish Plating	0.000057	Gold	7440-57-5	100	0.0003	
4	Cover Molded	RX1366FR-P Blue	4.504	Diallyl Phthalate Polymer	25053-15-0	36.5	7.64	20.93

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				Polyester Resin	68604-67-1	2	0.42	
				Peroxide, bis(1-methyl-1-phenylethyl)	80-43-3	1	0.21	
				Calcium silicate	13983-17-0	7.5	1.57	
				Amorphous silica	61790-53-2	1.5	0.31	
				Glass Fiber	65997-17-3	40	8.37	
				Alumina trihydrate	21645-51-2	2.5	0.52	
				Calcium stearate	1592-23-0	1	0.21	
				Antimony trioxide	1309-64-4	3	0.63	
				Bis(tetrabromophthalimido)ethane	32588-76-4	5	1.05	
5	Terminal x 2	Brass C360	0.25	Copper	7440-50-8	61.5	0.71	1.16
				Zinc	7440-66-6	35.4	0.4112	
				Lead	7439-92-2	3.1	0.0360	
		Under Plating	0.000114	Nickel	7440-02-0	100	0.0005	
		Finish Plating	0.000114	Gold	7440-57-5	100	0.0005	
9	Ink	Conductive Plastic Ink	0.07	Phenolic resin	9039-25-2	0.67	0.002	0.33
				Teflon	9002-84-0	0.01	0.00003	
				Fumed silica	112945-52-5	0.01	0.00003	
				Barium sulfate	7727-43-7	0.17	0.0006	
				Titanium dioxide	13463-67-7	0.05	0.0002	
				Carbon black	1333-86-4	0.09	0.0003	
10	Termination Ink	Termination Ink	0.01	Phenolic resin	9039-25-2	0.13	0.000060	0.046
				Silver	7440-22-4	0.855	0.00040	
				Graphite	7782-42-5	0.01	0.0000046	

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11	Dielectric Ink	Dielectric Ink	0.005	DAIP resin	1087-21-4	0.71	0.000	0.02
				Barium sulfate	7727-43-7	0.28	0.000	
				Pigment	84632-65-5	0.01	0.000	
12	Bushing	Brass C360	4.7923	Copper	7440-50-8	61.5	13.69398	22.26663
				Zinc	7440-66-6	35.4	7.88239	
		Plating	0.0001	Lead	7439-92-2	3.1	0.69027	
15	Contact Spring	Paliney #6	0.0236	Nickel	7440-02-0	100	0.00046	0.11
				Palladium	7440-05-3	39.8	0.04	
				Silver	7440-22-4	33.9	0.04	
				Copper	7440-50-8	24.2	0.027	
				Platinum	7440-06-4	0.5	0.0005	
				Nickel	7440-02-0	1.59	0.002	
16	Ink	Conductive Plastic Ink	0.02	Zinc	7440-66-6	0.01	0.000011	0.09
				Phenolic resin	9039-25-2	0.38	0.000	
				Fumed Silica	112945-52-5	0.01	0.00001	
				Carbon black	1333-86-4	0.11	0.0001	
17	Shaft	Stainless Steel 303	6.85	Silver	7440-22-4	0.5	0.0005	31.83
				Carbon	7440-44-0	0.15	0.0477	
				Manganese	7439-96-5	2	0.637	
				Phosphorus	7723-14-0	0.20	0.0637	
				Sulfur	7704-34-9	0.15	0.04774	
				Silicon	7440-21-3	0.90	0.286	
				Chromium	7440-47-3	18.00	5.729	
				Nickel	7440-02-0	9.00	0.004	
				Iron	7439-89-6	69.00	0.029	
18	Retaining Ring	Stainless Steel 420	0.009	Molybdenum	7439-98-7	0.60		0.04
				Carbon	7440-44-0	0.15	0.00006	

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				Silicon	7440-21-3	1.00	0.0004	
				Manganese	7439-96-5	1.00	0.0004	
				Phosphorus	7723-14-0	0.04	0.00002	
				Sulfur	7704-34-9	0.03	0.00001	
				Chromium	7440-47-3	14.00	0.006	
				Iron	7439-89-6	83.78	0.035	
20	Housing	ShinKong compound (Blue)	3.52	PBT	30965-26-5	49	8.014	16.36
				Glass fiber	65997-17-3	35	5.724	
				Brominated epoxy resin	68928-70-1	10	1.636	
				Antimony trioxide	1309-64-4	6	0.981	
21	Epoxy	BCC-39-22 Conductive Epoxy	0.015	Biphenyl A Polyglycidyl Ether	25068-38-6	0.27	0.0002	0.07
				Butyl Glydicyl Ether	2426-08-6	0.09	0.0001	
				Silver	7440-22-4	0.64	0.000	
22	Rotor	GS-51 Nylatron	1.27	Nylon 6.6 (polyhexamethylene adipamide)	32131-17-2	0.66	0.039	5.90
				Glass Fiber	65997-17-3	0.32	0.019	
				Molybdenum disulfide	1317-33-5	0.02	0.001	
		Total weight	21.5223					

This Document was updated on: 22024/05/14

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Per [Product Update Memo SC2436](#), this MDS is under revision. The updated version will be posted soon.