

# MATERIAL DECLARATION SHEET



Material Number	3400S-L		
Product Line	Precision Potentiometer		
Compliance Date	Feb 21, 2006		
RoHS Compliant	Yes	MSL	N/A



No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material/ Substances	CASRN if applicable	Material s Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Mandrel Wire	Copper	13.532	Copper	7440-50-8	100	13.000	13.000
		Coating	0.0003	Polyamide		100	0.0003	0.0003
2	Resist Wire	Nickel copper alloy	6.066	Nickel	7440-02-0	47	2.739	5.828
				Copper	7440-50-8	46.5	2.710	
				Iron	1300-37-1	3	0.175	
				Manganese	7439-96-5	3	0.175	
				Cobalt	7440-48-4	0.5	0.029	
3	Varnish	Polyester	1.093	Phenolic Resin		100	1.050	1.050
4	Housing	DAP.	39.9	Antimony Trioxide	1309-64-4	5	1.917	38.332
				Aluminum Hydroxide	21645-51-2	20	7.666	
				Diallyl phthalate		25	9.583	
				Glass Fiber	65997-17-3	50	19.166	
5	Tab	Nickel	0.192	Nickel	7440-02-0	100	0.184	0.184
		Inlay	0.017	Silver	7440-22-4	56	0.009	0.016
				Copper	7440-50-8	22	0.004	
				Zinc	7440-66-6	17	0.003	
				Tin	7440-31-5	5	0.001	

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6	Terminal X2	Beryllium Copper	0.07	Copper	7440-50-8	97.65	0.068	0.069
				Cobalt	7440-48-4	0.35	0.0002	
				Beryllium	7440-41-7	2	0.001	
		Under Plating	0.0065	Nickel	7440-02-0	100	0.006	0.006
		Finish Plating	0.006	Gold	7440-57-5	100	0.006	0.006
7	C-Ring	Stainless Steel	0.009	Carbon	7440-44-0	0.15	0.00001	0.009
				Manganese	7439-96-5	1	0.0001	
				Silicon	7740-21-3	1	0.0001	
				Chromium III	7740-47-3	14	0.001	
				Iron	7439-89-6	83.85	0.007	
8	Rear Lid	DAP	11.6	Antimony Trioxide	1309-64-4	5	0.557	11.144
				Aluminum Hydroxide	21645-51-2	20	2.229	
				Diallyl phthalate		25	2.786	
				Glass Fiber	65997-17-3	50	5.572	
9	Bushing	Aluminum	1.157	Silicon	7440-21-3	0.7	0.008	1.112
				Iron	7439-89-6	0.34	0.004	
				Copper	7440-50-8	0.34	0.003	
				Manganese	7439-96-3	0.09	0.001	
				Magnesium	7439-98-5	0.9	0.010	
				Chromium III	7440-47-3	0.09	0.001	
				Zinc	7440-66-6	0.05	0.001	
				Titanium	7440-32-6	0.02	0.0002	
				Aluminum	7429-90-5	97.47	1.115	
10	Rotor	PPS	0.434	Polyphenylene Sulfide	26125-40-6	58	0.242	0.417
				Glass Fibers	65997-17-3	39	0.163	
				Proprietary Ingredients		3	0.012	

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11	Shaft	Stainless Steel	15.25	Carbon	7440-44-0	0.15	0.022	14.651
				Manganese	7439-96-5	2	0.293	
				Silicon	7740-21-3	1	0.147	
				Chromium III	7740-47-3	19	2.784	
				Nickel	7440-02-0	10	1.465	
				Iron	7439-89-6	67.7	9.918	
				Sulfur	7446-09-5	0.15	0.0219	
12	Washer	Stainless Steel	0.025	Carbon	7440-44-0	0.15	0.00004	0.024
				Manganese	7439-96-5	2	0.0005	
				Silicon	7740-21-3	1	0.0002	
				Chromium III	7740-47-3	19	0.005	
				Nickel	7440-02-0	10	0.002	
				Iron	7439-89-6	67.85	0.016	
13	Washer	Teflon	0.0082	Polytetrafluoroethylene	9002-84-0	15	0.001	0.008
				1-Dichloro-1-Fluoroethane	1717-00-6	85	0.007	
14	Pin	Steel	0.13	Carbon	7440-44-0	0.15	0.0002	0.125
				Manganese	7439-96-5	2	0.002	
				Silicon	7740-21-3	1	0.001	
				Chromium III	7740-47-3	19	0.024	
				Nickel	7440-02-0	10	0.012	
				Iron	7439-89-6	67.7	0.085	
				Sulfur	7446-09-5	0.15	0.0002	
15	Slider	Nylon	1	Nylon	32131-17-2	90	0.865	0.961
				Proprietary Ingredients	32131-17-2	10	0.096	
16	Contact Spring	Palmet	0.03	Copper	7440-50-8	14	0.004	0.029
				Platinum	7440-06-4	10	0.003	
				Gold	7440-57-5	10	0.002	
				Silver	7440-22-4	30	0.009	
				Palladium	7440-05-3	35	0.010	
				Zinc	7440-66-6	1	0.0003	

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17	Front Cover	DAP	9.95	Antimony Trioxide	1309-64-4	5	0.476	9.559
				Aluminum Hydroxide	21645-51-2	20	1.912	
				Diallyl phthalate		25	2.389	
				Glass Fiber	65997-17-3	50	4.779	
18	Collector Bar	Beryllium Copper	0.05	Copper	7440-50-8	97.65	0.047	0.049
				Cobalt	7440-48-4	0.35	0.0002	
				Beryllium	7440-41-7	2	0.001	
		Under Plating	0.004	Nickel	7440-02-0	100	0.004	0.007
Finish Plating	0.003	Gold	7440-57-5	100	0.003			
19	Collector Ring	Beryllium Copper	0.175	Copper	7440-50-8	97.65	0.169	0.173
				Cobalt	7440-48-4	0.35	0.001	
				Beryllium	7440-41-7	2	0.003	
		Under Plating	0.015	Nickel	7440-02-0	100	0.014	0.017
Finish Plating	0.003	Gold	7440-57-5	100	0.003			
20	Lube (Element )	Grease	0.39	Decanoic acid, mixed esters with heptanoic acid, octanoic acid	68130-53-0	54.4	0.204	0.375
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.021	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.126	
				Polyisobutylene	9003-27-4	6.2	0.023	
21	Lube (Shaft )	Grease	0.42	Siloxanes and Silicones, di-Me, di-Ph	68083-14-7	68.947	0.278	0.403
				Lithium Stearate	4485-12-5	25.368	0.102	
				Silane, dichlorodimethyl-, reaction products & silica	68611-44-9	4.789	0.019	
				Diphenylamine	122-39-4	0.895	0.004	

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22	Epoxy (seal)	Epoxy	1.84	Epoxy resin	25085-99-8	49	0.89	1.820
				Antimony trioxide	1309-64-4	11	0.2	
				Silicon dioxide	7440-21-3	11	0.2	
				Aluminum oxide	1344-28-1	11	0.2	
				Kaolin clay	1332-58-7	9	0.16	
				Magnesium alumino silicate		9	0.16	
23	Epoxy ( Terminal, element & Barr )	Epoxy	0.71	Epoxy resin	25085-99-8	61	0.348	0.682
				Silicon dioxide	7440-21-3	23	0.232	
				Kaolin clay	1332-58-7	16	0.102	
24	Ink - Printing	Ink	0.005	Epoxy Resin		100	0.004	0.005
		Total Weight	101.098					

**This Document was updated on:** Aug 15, 2007

**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.