


MATERIAL DECLARATION SHEET



Material Number	3700S-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	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Mandrel Wire	Copper	1.5	Copper	7440-50-8	100	17.798	17.798
		Coating	0.00012	Polyamide		100	0.0014	0.0014
2	Resist Wire	Nickel Copper	0.5783	Nickel	7440-02-0	47	3.225	6.862
				Copper	7440-50-8	46.5	3.191	
				Iron	7439-89-6	3	0.206	
				Manganese	7439-96-5	3	0.206	
				Cobalt	7440-48-4	0.5	0.034	
3	Varnish	Polyester	0.1093	Phenolic Resin		100	1.297	1.297
4	Housing	DAP	1.75	Antimony Trioxide	1309-64-4	5	1.038	20.764
				Aluminum Hydroxide	21645-51-2	20	4.153	
				Diallyl Phthalate	25053-15-0	25	5.191	
				Glass Fiber	65997-17-3	50	10.382	
5	Tab X2	Nickel	0.002	Nickel	7440-02-0	100	0.024	2.280
		Inlay	0.1922	Silver	7440-22-4	56	1.277	
				Copper	7440-50-8	22	0.502	
				Zinc	7440-66-6	17	0.388	
				Tin	7440-31-5	5	0.114	
6	T.R. Terminal X2	Brass	0.070	Copper	7440-50-8	98.05	0.814	0.831
				Cobalt	7440-48-4	0.35	0.0029	
				Beryllium	7440-41-7	1.6	0.013	
		Under Plating	0.0065	Nickel	7440-02-0	100	0.077	0.077
		Finish Plating	0.003	Gold	7440-57-5	100	0.036	0.036

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7	Rotor	Nylon	0.45	Base Resin	26125-40-6	100	5.339.	5.339
8	Shaft	Stainless Steel	1.45	Carbon	7440-44-0	0.15	0.0258	17.204
				Manganese	7439-96-5	2	0.3441	
				Silicon	7740-21-3	1	0.172	
				Chromium	7740-47-3	19	3.269	
				Nickel	7440-02-0	10	1.720	
				Iron	7439-89-6	67.7	11.647	
				Sulfur	7446-09-5	0.15	0.026	
9	Collector Bar	Copper	0.0125	Copper	7440-50-8	98.45	0.146	0.148
				Cobalt	7440-48-4	0.35	0.001	
				Beryllium	7440-41-7	2	0.003	
		Under Plating	0.00001	Nickel	7440-02-0	100	0.0132	0.013
Finish Plating	0.00001	Gold	7440-57-5	100				
10	Slider	Nylon	0.175	Polyamide	32131-17-2	89	1.848	2.076
				Proprietary Ingredients		11	0.228	
11	Contact spring	Pamlet	0.0105	Copper	7440-50-8	10	0.012	0.125
				Gold	7440-57-5	10	0.0125	
				Platinum	7440-06-4	10	0.012	
				Palladium	7440-05-3	30	0.037	
				Silver	7440-22-4	30	0.037	
				Zinc	7440-66-6	10	0.01246	
12	Pin	Stainless Steel	0.001	Carbon	7440-44-0	0.15	0.00002	0.012
				Manganese	7439-96-5	2	0.0002	
				Silicon	7740-21-3	1	0.0001	
				Chromium	7740-47-3	19	0.002	
				Nickel	7440-02-0	10	0.001	
				Iron	7439-89-6	52.85	0.006	
				Sulfur	7446-09-5	15	0.00176	
13	Cover	DAP	0.8	Antimony Trioxide	1309-64-4	5	0.47461	9.492
				Aluminum Hydroxide	21645-51-2	20	1.8984	
				Diallyl Phthalate	25053-15-0	25	2.3730	

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				Glass Fiber	65997-17-3	50	4.746	
14	Lid	DAP	0.6	Antimony Trioxide	1309-64-4	5	0.356	7.119
				Aluminum Hydroxide	21645-51-2	20	1.424	
				Diallyl Phthalate	25053-15-0	25	1.780	
				Glass Fiber	65997-17-3	50	3.560	
15	Bushing	Aluminum	0.6	Silicon	7440-21-3	0.7	0.0498	7.119
				Iron	7439-89-6	0.34	0.024	
				Copper	7440-50-8	0.34	0.024	
				Manganese	7439-96-3	0.09	0.006	
				Magnesium	7439-98-5	0.9	0.064	
				Chromium	7440-47-3	0.09	0.006	
				Zinc	7440-66-6	0.05	0.0036	
				Titanium	7440-32-6	0.02	0.001	
Aluminum	7429-90-5	97.47	6.939					
16	Wiper Terminal	Brass	0.031	Copper	7440-50-8	61.5	0.226	0.368
				Lead	7439-92-1	3	0.011	
				Zinc	7440-66-6	35.5	0.1306	
		Under Plating	0.002	Nickel	7440-02-0	100	0.0244	0.0004
		Finish Plating	0.00003	Gold	7440-57-5			
17	Washer	PTFE	0.002	Polytetrafluoroethylene	9002-84-0	15	0.0036	0.024
				1-Dichloro-1-Fluoroethane	1717-00-6	85	0.020	
18	Washer	PTFE	0.004	Polytetrafluoroethylene	9002-84-0	15	0.007	0.047
				1-Dichloro-1-Fluoroethane	1717-00-6	85	0.0403	
19	Lube Element	Grease	0.005	Decanoic acid, mixed esters with heptanoic acid, octanoic acid	68130-53-0	54.4	0.032	0.059
				Lithium 12- hydroxystearate	7620-77-1	5.7	0.003	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.020	

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				Polyisobutylene	9003-27-4	6.2	0.004	
20	Lube Shaft	Grease	0.021	Siloxanes and Silicones, di-Me, di-Ph	68083-14-7	68.95	0.172	0.249
				Lithium Stearate	4485-12-5	25.37	0.063	
				Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	4.79	0.012	
				Diphenylamine	122-39-4	0.89	0.002	
21	Epoxy (Collector Bar)	Epoxy	0.015	Epoxy resin	25085-99-8	49	0.087	0.178
				Antimony trioxide	1309-64-4	11	0.020	
				Silicon dioxide	7440-21-3	11	0.020	
				Aluminum dioxide	1344-28-1	11	0.020	
				Kaolin clay	1332-58-7	9	0.016	
				Magnesium alumino silicate		9	0.016	
22	Epoxy (Seal)	Epoxy	0.035	Epoxy resin	25085-99-8	61	0.253	0.415
				Silicon dioxide	7440-21-3	23	0.096	
				Kaolin clay	1332-58-7	16	0.066	
		Total weight	8.428					

This Document was updated on: Aug 03, 2007

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS compliant – exemption 6c – lead in copper alloys
3. Per [Product Update Memo SC2436](#), this MDS is under revision. The updated version will be posted soon.