MATERIAL DECLARATION SHEET

BOURNS®
Reliable Electronic Solutions

Material Number	3701H-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	16.860	16.860
		Coating	0.00012	Polyamide		100	0.001	0.001
2	Resist Wire	Nickel Copper	0.578	Nickel	7440-02-0	47	3.055	6.500
				Copper	7440-50-8	46.5	3.023	
				Iron	7439-89-6	3	0.195	
				Manganese	7439-96-5	3	0.195	
				Cobalt	7440-48-4	0.5	0.033	
3	Varnish	Polyester	0.109	Phenolic Resin		100	1.2286	1.229
4	Resistive Ink	Ink	0.008	Phenolic Resin		67	0.0602	0.090
				DAIP resin	1087-21-4	6	0.005	
				Carbon Black	1333-86-4	7	0.006	
				Barium sulfate	7727-43-7	16	0.014	
				Graphite	7782-42-5	4	0.0036	
5	Housing	DAP	1.75	Antimony Trioxide	1309-64-4	5	0.984	19.671
				Aluminum Hydroxide	21645-51-2	20	3.934	
				Diallyl Phthalate	25053-15-0	25	4.918	
				Glass Fiber	65997-17-3	50	9.835	
6	Tab X2	Nickel	0.002	Nickel	7440-02-0	100	0.022	0.022
		Inlay	0.192	Silver	7440-22-4	56	1.2098	2.160
				Copper	7440-50-8	22	0.475	
				Zinc	7440-66-6	17	0.3673	
				Tin	7440-31-5	5	0.1080	

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7	Terminal Cap X2	Under Plating	0.001	Nickel	7440-02-0	100	0.0118	0.012
		Finish Plating	0.001	Gold	7440-57-5	100	0.011	0.011
8	T.R. Terminal X2	Brass	0.157	Copper	7440-50-8	61.5	1.0853	1.765
				Lead	7439-92-1	3	0.053	
				Zinc	7440-66-6	35.5	0.626	
		Under Plating	0.0014	Nickel	7440-02-0	100	0.012	0.012
		Finish Plating	0.001	Gold	7440-57-5	100		
9	Rotor	Nylon	0.45	Base Resin	26125-40-6	100	5.058	5.058
10	Shaft	Stainless Steel	1.45	Carbon	7440-44-0	0.15	0.0244	16.298
				Manganese	7439-96-5	2	0.326	
				Silicon	7740-21-3	1	0.163	
				Chromium	7740-47-3	19	3.097	
				Nickel	7440-02-0	10	1.630	
				Iron	7439-89-6	67.7	11.034	
				Sulfur	7446-09-5	0.15	0.024	
11	Collector Bar	Copper	0.012	Copper	7440-50-8	98.2	0.138	0.141
				Cobalt	7440-48-4	0.2	0.0003	
				Beryllium	7440-41-7	1.6	0.002	
		Under Plating	0.001	Nickel	7440-02-0	100	0.0001	0.0001
		Finish Plating	0.00001	Gold	7440-57-5	100		
12	Slider	Nylon	0.175	Polyamide	32131-17-2	89	1.751	1.967
				Proprietary Ingredients		11	0.216	
13	Contact Spring	Palmet	0.0105	Copper	7440-50-8	10	0.012	0.118
				Gold	7440-57-5	10	0.012	
				Platinum	7440-06-4	10	0.012	
				Palladium	7440-05-3	30	0.035	
				Silver	7440-22-4	30	0.035	
				Zinc	7440-66-6	10	0.012	
14	Pin	Stainless Steel	0.001	Carbon	7440-44-0	0.15	0.00002	0.011
				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	

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				Iron	7439-89-6	67.3	0.008	
				Sulfur	7446-09-5	0.15	0.00002	
15	Front Cover	DAP	0.8	Antimony Trioxide	1309-64-4	5	0.450	8.992
				Aluminum Hydroxide	21645-51-2	20	1.798	
				Diallyl Phthalate	25053-15-0	25	2.248	
				Glass Fiber	65997-17-3	50	4.496	
16	Rear Lid	DAP	0.6	Antimony Trioxide	1309-64-4	5	0.337	6.744
				Aluminum Hydroxide	21645-51-2	20	1.349	
				Diallyl Phthalate	25053-15-0	25	1.686	
				Glass Fiber	65997-17-3	50	3.372	
17	Bushing	Aluminum	0.983	Silicon	7440-21-3	0.7	0.077	11.049
				Iron	7439-89-6	0.34	0.038	
				Copper	7440-50-8	0.34	0.038	
				Manganese	7439-96-3	0.09	0.010	
				Magnesium	7439-98-5	0.09	0.010	
				Chromium	7440-47-3	0.09	0.01	
				Zinc	7440-66-6	0.05	0.005	
				Titanium	7440-32-6	0.02	0.002	
				Aluminum	7429-90-5	98.28	10.859	
18	Wiper Terminal	Brass	0.031	Copper	7440-50-8	61.5	0.214	0.348
				Lead	7439-92-1	3	0.010	
				Zinc	7440-66-6	35.5	0.124	
		Under Plating	0.002	Nickel	7440-02-0	100	0.0003	0.0003
		Finish Plating	0.00003	Gold	7440-57-5	100		
19	Washer 1	PTFE	0.002	Polytetrafluoroethylene	9002-84-0	15	0.003	0.022
				1-Dichloro-1-fluoroethane	1717-00-6	85	0.019	
20	Washer 2	PTFE	0.004	Polytetrafluoroethylene	9002-84-0	15	0.007	0.045
				1-Dichloro-1-fluoroethane	1717-00-6	85	0.038	
21	Lube Element	Grease	0.005	Decanoic acid, mixed esters with heptanoic acid, octanoic acid	68130-53-0	54.4	0.030	0.056
				Lithium 12- hydroxystearate	7620-77-1	5.7	0.003	

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				Isohexadecyl-isooctadecanoate	52006-45-8	33.7	0.019	
				Polyisobutylene	9003-27-4	6.2	0.003	
22	Lube Shaft	Grease	0.021	Siloxanes and Silicones, di-Me, di-Ph	68083-14-7	68.9	0.163	0.236
				Lithium Stearate	4485-12-5	25.36	0.060	
				Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	4.85	0.011	
				Diphenylamine	122-39-4	0.89	0.002	
23	Epoxy (Collector bar)	Epoxy	0.015	Epoxy resin	25085-99-8	49	.0826	0.169
				Antimony trioxide	1309-64-4	11	0.018	
				Silicon dioxide	7440-21-3	11	0.018	
				Aluminum oxide	1344-28-1	11	0.018	
				Kaolin clay	1332-58-7	9	0.015	
				Magnesium alumino silicate		9	0.015	
24	Epoxy (Seal)	Epoxy	0.035	Epoxy resin	25085-99-8	61	0.24	0.393
				Silicon dioxide	7440-21-3	23	0.09	
				Kaolin clay	1332-58-7	16	0.063	
		Total weight	8.876					

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 6 – lead in copper alloy

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