


# MATERIAL DECLARATION SHEET



Material Number	3590S-2-L			
Product Line	Precision Potentiometer			
Compliance Date	May 31, 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	Lube	Grease	0.008	Polysiloxane	63148-62-9	100	0.0369	0.0369
2	Mandrel	Copper	1.006	Copper	7440-22-4	100	4.6355	4.6355
		Coating	0.0001	Polyamide	63428-83-1	100	0.0005	0.0005
3	Resist Wire	Metal	0.2789	Nickel	7440-02-0	46	0.5912	1.2851
				Chromium	7440-47-3	0.1	0.0013	
				Manganese	7439-96-5	0.8	0.0103	
				Silicon	7440-21-3	0.3	0.0038	
				Carbon	7440-44-0	0.05	0.0007	
				Phosphorus	7723-14-0	0.025	0.0003	
				Sulfur	7704-34-9	0.025	0.0003	
				Iron	7439-98-7	52.7	0.6772	
4	Varnish	Polyester Phenolic Resin	0.1093	Unsaturated Polyester Resin and Phenol-formaldehyde Resin	9039-25-2	100	0.5036	0.5036
5	Housing	PBT	3.064	Glass	65997-17-3	30	4.2356	14.1185
				Antimony Oxide	1309-64-4	4	0.5647	

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				TBBPA polycarbonate polymer	Trade secret	11	1.5530	
				Poly(butylene terephthalate)	30965-26-5	55	7.7652	
6	Terminal X 2	Copper	0.1206	Copper	7440-50-8	97.47	0.5416	0.5557
				Zinc	7440-66-6	0.1	0.0006	
				Phosphorus	7723-14-0	0.03	0.0002	
				Iron	7439-98-7	2.4	0.0133	
		Under Plating	0.0024	Copper	7440-22-4	100	0.0111	0.0111
		Finish Plating	0.0061	Tin	7440-31-5	100	0.0281	0.0281
		Inlay	0.0013	Silver	7440-22-4	56	0.0034	0.0060
				Copper	7440-50-8	22	0.0013	
Zinc	7440-66-6			17	0.0010			
Tin	7440-31-5			5	0.0003			
7	Cover	PBT	1.3885	Glass	65997-17-3	30	1.9194	6.3980
				Antimony Oxide	1309-64-4	4	0.2559	
				TBBPA polycarbonate polymer	Trade secret	11	0.7038	
				Poly(butylene terephthalate)	30965-26-5	55	3.5189	
8	Lube	Grease	0.008	Decanoic acid, mixed esters with heptanoic acid, octanoic acid, trimethylolpropane	68130-53-0	55.4	0.0205	0.0369
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.0021	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.0124	
				Polyisobutylene	9003-27-4	5.2	0.0019	
9	Lube	Grease	0.008	1-Decene, tetramer, mixed with 1-decene trimer, hydrogenated	68649-12-7	58.8	0.0217	0.0369
				1-Propene, polymer with ethene	9010-79-1	30.8	0.0114	

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				Silica, amorphous fumed	112945-52-5	5.4	0.0020				
				Ethene, tetrafluoro-, homopolymer	9002-84-0	5	0.0018				
10	Bushing	Zinc	2.67	Iron	7439-98-7	0.075	0.0092	12.3030			
				Copper	7440-50-8	0.1	0.0123				
				Magnesium	7439-98-5	0.03	0.0037				
				Tin	7440-31-5	0.002	0.0002				
				Lead	7439-92-1	0.004	0.0005				
				Aluminum	7429-90-5	4	0.4921				
				Cadmium	7440-43-9	0.003	0.0004				
				Zinc	7440-66-6	95.786	11.7846				
11	Rotor	PBT	1.1115	Glass	65997-17-3	30	1.5365	5.1216			
				Antimony Oxide	1309-64-4	4	0.2048				
				TBBPA polycarbonate polymer	Trade secret	11	0.5634				
				Poly(butylene terephthalate)	30965-26-5	55	2.8169				
12	Shaft	Brass	9.507	Copper	7440-50-8	61.5	26.9413	43.8070			
					Lead	7439-92-1	3.1		1.3580		
				Zinc	7440-66-6	35.4	15.5077				
		Plating	0.014	Nickel	7440-02-0	100	0.0645	0.0645			
13	Slider	Nylon	0.11	Nylon	32131-17-2	55	0.2788	0.5069			
							Glass		65997-17-3	30	0.1521
							Polytetrafluoroethylene		9002-84-0	13	0.0659
							Carbon black		1333-86-4	2	0.0101
14	Contact Spring	Pamlet	0.0077	Copper	7440-50-8	16	0.0057	0.0355			
							Nickel		7440-02-0	1	0.00035

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				Palladium	7440-05-3	1	0.00035	
				Platinum	7440-06-4	44	0.0156	
				Silver	7440-22-4	38	0.0135	
15	Collector Bar	Beryllium Copper	0.0275	Copper	7440-50-8	98.1	0.1243	0.1267
				Silicon	7440-21-3	0.2	0.00025	
				Beryllium	7440-41-7	1.5	0.0019	
				Aluminum	7429-90-5	0.2	0.00025	
		Under Plating	0.004	Nickel	7440-02-0	100	0.0184	0.0184
		Finish Plating	0.004	Gold	7440-57-5	100	0.0184	0.0184
16	Wiper Terminal	Bronze	1.95	Copper	7440-50-8	94.8	8.5181	8.9853
				Tin	7440-31-5	5	0.4493	
				Phosphorus	7723-14-0	0.2	0.0179	
		Under Plating	0.0007	Nickel	7440-02-0	100	0.0032	0.0032
		Finish Plating	0.0016	Gold	7440-57-5	100	0.0074	0.0074
17	Washer 1	PTFE	0.0025	Polytetrafluoroethylene	9002-84-0	15	0.0017	0.0115
				1-Dichloro-1-Fluoroethane	1717-00-6	85	0.0098	
18	Washer 2	PTFE	0.0082	Polytetrafluoroethylene	9002-84-0	15	0.0057	0.0378
				1-Dichloro-1-Fluoroethane	1717-00-6	85	0.0321	
19	Retaining Ring	Stainless Steel	0.082	Chromium	7440-47-3	14.5	0.0548	0.3779
				Nickel	7440-02-0	7.5	0.0283	
				Carbon	7440-44-0	0.085	0.0003	
				Molybdenum	7439-98-7	2	0.0076	
				Aluminum	7429-90-5	1	0.0038	
				Iron	7439-89-6	74.91	0.2831	
20	Epoxy 1	Epoxy	0.1276	Epoxy resin	25068-38-6	64	0.3763	0.5880
				Antimony trioxide	1309-64-4	11	0.0647	
				Aluminum oxide	1344-28-1	10	0.0588	

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				Kaolin clay	1332-57-8	6	0.0353	
				Magnesium alumino silicate	1302-88-1	9	0.0529	
21	Epoxy 2	Epoxy	0.0725	Epoxy resin	2386-87-0	65	0.2172	0.3341
				Caprolacton, trimethylpropan polymer	37625-56-2	20	0.0668	
				Aluminum trioxide	1344-28-1	10	0.0334	
				Hydrophobic pyrogenic silica	112945-52-5	3.5	0.0117	
				Propylene carbonate	108-32-7	1.5	0.0050	
		Total weight	21.702					

**This Document was updated on:** July 22, 2014

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS Exempt with Exemption 6c: Copper alloy containing up to 4% lead by weight.