

# MATERIAL DECLARATION SHEET



Material Number	3590P-2-L			
Product Line	Precision Potentiometer			
Compliance Date	December 31, 2005			
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	1.006	Copper	7440-22-4	100	5.647	5.647
		Coating	0.0000639	Polyamide		100	0.0004	0.0004
2	Resist Wire	Metal	0.2789	Nickel	7440-02-0	46	0.72	1.566
				Chromium	7440-47-3	0.1	0.002	
				Manganese	7439-96-5	0.8	0.013	
				Silicon	7440-21-3	0.3	0.005	
				Carbon	7440-44-0	0.05	0.0008	
				Phosphorus	7723-14-0	0.025	0.0004	
				Sulfur	7704-34-9	0.025	0.0004	
				Iron	7439-98-7	52.7	0.825	
3	Element Epoxy	Epoxy	0.0725	resin(epoxy resin and cresyl glycidyl ether)+Catalyst (Polyamide system)		61	0.248	0.407
				Pigment (Phthalocyanine in Bisphenol A and TiO2)		3	0.012	
				Fillers (Antimony Oxide + Hydrated Alumina + Magnesium Aluminum Silicate + Aluminum silicate)		36	0.147	

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4	Varnish	Polyester Phenolic Resin	0.1093	Unsaturated Polyester Resin and Phenol-formaldehyde Resin		100	0.614	0.614
5	Housing	PBT	3.064	Glass	65997-17-3	30	5.159	17.199
				Antimony Oxide	1309-64-4	3	0.516	
				Antimony Compounds	7440-36-0	3	0.516	
				Poly(butylene terephthalate)	30965-26-5	64	11.008	
6	T.R. Terminal X 2	Brass	0.1206	Copper	7440-50-8	97.47	0.659	0.677
				Zinc	7440-66-6	0.1	0.0007	
				Phosphorus	7723-14-0	0.03	0.0002	
				Iron	7439-98-7	2.4	0.016	
		Under Plating	0.00246	Copper	7440-22-4	100	0.014	0.014
		Finish Plating	0.00606	Tin	7440-31-5	100	0.034	0.034
		Inlay	0.00126	Copper	7440-50-8	56	0.004	0.007
				Zinc	7440-66-6	22	0.002	
				Tin	7440-31-5	17	0.001	
				Copper	7440-50-8	5	0.0004	
7	Cover	PBT	1.3885	Glass	65997-17-3	30	2.338	7.794
				Antimony Oxide	1309-64-4	3	0.234	
				Antimony Compounds	7440-36-0	3	0.234	
				Poly(butylene terephthalate)	30965-26-5	64	4.988	
8	Cover and Housing Lube	Grease	0.008	Decanoic acid, mixed esters with heptanoic acid, octanoic acid	68130-53-0	54.4	0.024	0.045
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.003	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.015	
				Polyisobutylene	9003-27-4	6.2	0.003	

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9	Bushing	Zinc	2.67	Iron	7439-98-7	0.075	0.011	14.988		
				Copper	7440-50-8	0.1	0.015			
				Magnesium	7439-98-5	0.03	0.005			
				Tin	7440-31-5	0.002	0.0003			
				Lead	7439-92-1	0.004	0.0006			
				Aluminum	7429-90-5	4	0.599			
				Cadmium	7440-43-9	0.003	0.0004			
				Zinc	7440-66-6	95.786	14.356			
10	Rotor	PBT	1.1115	Glass	65997-17-3	30	1.872	6.239		
				Antimony Oxide	1309-64-4	3	0.187			
				Antimony Compounds	7440-36-0	3	0.187			
				Poly(butylene terephthalate)	30965-26-5	64	3.993			
11	Shaft	Brass	7.388	Copper	7440-50-8	61.5	25.505	41.471		
				Lead	7439-92-1	3	1.244			
				Zinc	7440-66-6	35.5	14.722			
		Plating		0.014	Nickel	7440-02-0	100	0.079	0.079	
12	Slider	Nylon	0.11	Nylon	32131-17-2	60	0.37	0.618		
				Glass	65997-17-3	30	0.185			
				Polytetrafluorethylene	9002-84-0	10	0.062			
13	Contact Spring	Palmet	0.0769	Copper	7440-50-8	16	0.069	0.432		
				Nickel	7440-02-0	1	0.004			
				Palladium	7440-05-3	1	0.004			
				Platinum	7440-06-4	44	0.189			
				Silver	7440-22-4	38	0.164			
14	Collector Bar	Beryllium Copper	0.0275	Copper	7440-50-8	98.1	0.151	0.154		
				Silicon	7440-21-3	0.2	0.0003			
				Beryllium	7440-41-7	1.5	0.002			
				Aluminum	7429-90-5	0.2	0.0003			
			Under Plating		0.004	Nickel	7440-02-0	100	0.022	0.022
			Finish Plating		0.004	Gold	7440-57-5	100	0.022	0.022

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15	Terminal Pockets, Cover, Lid, and Contact Spring Epoxy	Epoxy	0.1276	resin(epoxy resin)		47	0.337	0.716
				Pigment (Phthalocyanine in Bisphenol A and TiO <sub>2</sub> )		4	0.029	
				fillers(Silica + Aluminum Silicate )		49	0.351	
16	Wiper Terminal	Brass	0.1945	Copper	7440-50-8	94.8	1.035	1.092
				Tin	7440-31-5	5	0.055	
				Phosphorus	7723-14-0	0.2	0.002	
		Under Plating	0.000747	Nickel	7440-02-0	100	0.004	0.004
	Finish Plating	0.001645	Gold	7440-57-5	100	0.009	0.009	
17	Washer 1	PTFE	0.0025	Polytetrafluoroethylene	9002-84-0	15	0.002	0.014
				1-Dichloro-1-Fluoroethane	1717-00-6	85	0.012	
18	Washer 2	PTFE	0.0082	Polytetrafluoroethylene	9002-84-0	15	0.007	0.046
				1-Dichloro-1-Fluoroethane	1717-00-6	85	0.039	
19	Washer Lube	Grease	0.016	Siloxanes and Silicones, di-Me, di-Ph	68083-14-7	68.947	0.062	0.089
				Lithium Stearate	4485-12-5	25.368	0.023	
				Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	4.789	0.004	
				Diphenylamine	122-39-4	0.895	0.0008	
		Total weight	17.815					

**This Document was updated on:** February 13, 2007

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.