


# MATERIAL DECLARATION SHEET



Material Number	3547H			
Product Line	Precision Potentiometer			
Compliance Date	January 31, 2007			
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	Wiper terminal	Brass	0.264	Copper	7440-50-8	70	0.955	1.364
				Zinc	7440-66-6	30	0.409	
		Under plating	0.012	Nickel	7440-02-0	100	0.062	0.062
		Finish plating	0.0026	Gold	7440-57-5	100	0.013	0.013
2	Rear Cover	Nylon	0.972	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	2.160	5.022
				Tetrafluoroethylene polymer	9002-84-0	13	0.653	
				Glass fiber	65997-17-3	40	2.009	
				Silicon	7440-21-3	2	0.100	
				Carbon black	1333-86-4	2	0.100	
3	Slider	Nylon	0.238	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	0.529	1.23
				Tetrafluoroethylene polymer	9002-84-0	13	0.159	
				Glass fiber	65997-17-3	40	0.492	
				Silicon	7440-21-3	2	0.025	
				Carbon black	1333-86-4	2	0.025	
4	Contact spring	Palmet	0.013	Copper	7440-50-8	16	0.011	0.067
				Nickel	7440-02-0	1	0.001	
				Palladium	7440-05-3	1	0.001	
				Platinum	7440-06-4	44	0.029	
				Silver	7440-22-4	38	0.025	

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5	Housing	PBT	3.108	Polybutylene terephthalate	30965-26-5	54	8.672	16.060
				Glass fiber	65997-17-3	30	4.818	
				Brominated flame retardant (TBBPA Polycarbonate polymer)	Trade secret	11	1.767	
				Antimony trioxide	1309-64-4	4	0.642	
				Carbon black	1333-86-4	1	0.161	
6	Mandrel Wire	Copper	0.679	Copper	7440-50-8	100	3.509	3.509
		Coating	0.0000312	Polyamide	63428-83-1	100	0.0002	0.0002
7	Resistive Wire	Metal	0.1568	Nickel	7440-02-0	45	0.364	0.81
				Copper	7440-50-8	55	0.446	
8	Resistive Ink	Thick film ink	0.003	Phenolic Resin	9039-25-2	67	0.0094	0.014
				DAIP Resin	1087-21-4	6	0.0008	
				Carbon black	1333-86-4	7	0.0010	
				Barium sulfate	7727-43-7	16	0.0022	
				Graphite	7782-42-5	4	0.0006	
9	Element Epoxy	Epoxy	0.0005	epoxy resin	25068-38-6	64	0.00192	0.003
				Antimony trioxide	1309-64-4	11	0.00033	
				Aluminum oxide	1344-28-1	10	0.0003	
				Kaolin clay	1332-58-7	6	0.00018	
				Magnesium alumino silicate	1302-88-1	9	0.00027	
10	Terminal Cover	PPS	0.237	Polyphenylene sulfide	26125-40-6	57	0.722	1.267
				Glass fiber	65997-17-3	41	0.520	
				Carbon black	1333-86-4	2	0.025	
11	T.R. Terminal x 2	Nickel Silver	0.082	Copper	7440-50-8	65	0.2756	0.424
				Zinc	7440-66-6	17	0.0721	
				Nickel	7440-02-0	18	0.0763	
		Solder Inlay	0.00005	Silver	7440-22-4	56	0.000168	0.0003
				Copper	7440-50-8	22	0.000066	
				Zinc	7440-66-6	17	0.000051	
				Tin	7440-31-5	5	0.000015	
		Plating	0.00037	Gold	7440-57-5	100	0.002	0.002

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12	Element, Terminal and Collector Bar Lube	Lube	0.005	Decanoic acid, mixed esters with heptanoic acid, octanoic acid	68130-53-0	54.4	0.0141	0.026
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.0015	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.0088	
				Polyisobutylene	9003-27-4	6.2	0.0016	
13	Tab	Nickel	0.1924	Nickel	7440-02-0	100	0.994	0.994
		Inlay	0.01757	Silver	7440-22-4	56	0.051	
				Copper	7440-50-8	22	0.020	
				Zinc	7440-66-6	17	0.016	
				Tin	7440-31-5	5	0.004	
14	Rotor	Nylon	1.372	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	3.048	7.089
				Tetrafluoroethylene polymer	9002-84-0	13	0.921	
				Glass fiber	65997-17-3	40	2.836	
				Silicon	7440-21-3	2	0.142	
				Carbon black	1333-86-4	2	0.142	
15	Shaft	Brass	7.693	Copper	7440-50-8	61.5	24.448	39.753
				Zinc	7440-66-6	35.5	14.112	
				Lead	7439-92-1	3	1.193	
		Plating	0.0293	Nickel	7440-02-0	100	0.151	0.151
16	Washer x 2	Stainless Steel	0.05	Carbon	7440-44-0	0.15	0.0004	0.258
				Manganese	7439-96-5	2	0.0052	
				Silicon	7440-21-3	1	0.0026	
				Chromium	7440-47-3	18	0.0464	
				Nickel	7440-02-0	9	0.0232	
				Iron	7439-89-6	69.86	0.1802	
17	C-Ring	Stainless Steel	0.009	Carbon	7440-44-0	0.15	0.00007	0.047
				Manganese	7439-96-5	1	0.00047	
				Silicon	7440-21-3	1	0.00047	
				Chromium	7440-47-3	13	0.00611	
				Iron	7439-89-6	84.85	0.03988	

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18	Front Lid	PBT	0.827	Polybutylene terephthalate	30965-26-5	54	2.307	4.273
				Glass fiber	65997-17-3	30	1.282	
				Brominated flame retardant (TBBPA Polycarbonate polymer)	Trade secret	11	0.470	
				Antimony trioxide	1309-64-4	4	0.171	
				Carbon black	1333-86-4	1	0.043	
19	Bushing	Brass	3.309	Copper	7440-50-8	61.5	10.516	17.099
				Zinc	7440-66-6	35.5	6.070	
				Lead	7439-92-1	3	0.513	
20	Bushing Lube	Lube	0.005	Siloxanes and silicones, di-Me, di-Ph	68083-14-7	68.9	0.0179	0.026
				Lithium Stearate	4485-12-5	25.4	0.0066	
				Silane, dichlorodimethyl, reaction products with silica	68611-44-9	4.8	0.0013	
				Diphenylamine	122-39-4	0.9	0.0002	
21	Collector Bar	Nickel Silver	0.074	Nickel	7440-02-0	18	0.0688	0.382
				Copper	7440-50-8	55	0.2101	
				Zinc	7440-66-6	27	0.1031	
		Plating	0.0009	Gold	7440-57-5	100	0.005	0.005
			Total weight	19.352				

**This Document was updated on:** June 29, 2012

### Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Please see RoHS Certificate of Compliance for exemptions used.