


MATERIAL DECLARATION SHEET



Material Number	3548H			
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	0.930	1.328
				Zinc	7440-66-6	30	0.398	
		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	2.103	4.891
				Tetrafluoroethylene polymer	9002-84-0	13	0.636	
				Glass fiber	65997-17-3	40	1.956	
				Silicon	7440-21-3	2	0.098	
				Carbon black	1333-86-4	2	0.098	
3	Slider	Nylon	0.238	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	0.515	1.198
				Tetrafluoroethylene polymer	9002-84-0	13	0.156	
				Glass fiber	65997-17-3	40	0.479	
				Silicon	7440-21-3	2	0.024	
				Carbon black	1333-86-4	2	0.024	
4	Contact spring	Palmet	0.013	Copper	7440-50-8	16	0.0104	0.065
				Nickel	7440-02-0	1	0.00065	
				Palladium	7440-05-3	1	0.00065	
				Platinum	7440-06-4	44	0.0286	
				Silver	7440-22-4	38	0.0247	

MATERIAL DECLARATION SHEET



5	Housing	PBT	3.108	Polybutylene terephthalate	30965-26-5	54	8.446	15.641
				Glass fiber	65997-17-3	30	4.692	
				Brominated flame retardant (TBBPA Polycarbonate polymer)	Trade secret	11	1.721	
				Antimony trioxide	1309-64-4	4	0.626	
				Carbon black	1333-86-4	1	0.156	
6	Mandrel Wire	Copper	1.13	Copper	7440-50-8	100	5.687	5.687
		Coating	0.0000519	Polyamide	63428-83-1	100	0.0003	0.0003
7	Resistive Wire	Metal	0.2229	Nickel	7440-02-0	45	0.505	1.122
				Copper	7440-50-8	55	0.617	
8	Resistive Ink	Thick film ink	0.003	Phenolic Resin	9039-25-2	67	0.0469	0.070
				DAIP Resin	1087-21-4	6	0.0042	
				Carbon black	1333-86-4	7	0.0049	
				Barium sulfate	7727-43-7	16	0.0112	
				Graphite	7782-42-5	4	0.0028	
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	0.680	1.193
				Glass fiber	65997-17-3	41	0.489	
				Carbon black	1333-86-4	2	0.024	
11	T.R. Terminal x 2	Nickel Silver	0.082	Copper	7440-50-8	65	0.0269	0.0413
				Zinc	7440-66-6	17	0.0070	
				Nickel	7440-02-0	18	0.0074	
		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

MATERIAL DECLARATION SHEET



12	Element, Terminal and Collector Bar Lube	Lube	0.005	Decanoic acid, mixed esters with heptanoic acid, octanoic acid	68130-53-0	54.4	0.0136	0.025
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.0014	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.0084	
				Polyisobutylene	9003-27-4	6.2	0.0016	
13	Tab	Nickel	0.1924	Nickel	7440-02-0	100	0.968	0.968
		Inlay	0.01757	Silver	7440-22-4	56	0.0493	
				Copper	7440-50-8	22	0.0194	
				Zinc	7440-66-6	17	0.0149	
				Tin	7440-31-5	5	0.0044	
14	Rotor	Nylon	1.372	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	2.969	6.905
				Tetrafluoroethylene polymer	9002-84-0	13	0.898	
				Glass fiber	65997-17-3	40	2.762	
				Silicon	7440-21-3	2	0.138	
				Carbon black	1333-86-4	2	0.138	
15	Shaft	Brass	7.693	Copper	7440-50-8	61.5	23.811	38.717
				Zinc	7440-66-6	35.5	13.744	
				Lead	7439-92-1	3	1.162	
		Plating	0.0293	Nickel	7440-02-0	100	0.147	0.147
16	Washer x 2	Stainless Steel	0.05	Carbon	7440-44-0	0.15	0.0004	0.252
				Manganese	7439-96-5	2	0.005	
				Silicon	7440-21-3	1	0.0025	
				Chromium	7440-47-3	18	0.0454	
				Nickel	7440-02-0	9	0.0227	
				Iron	7439-89-6	69.86	0.1760	
17	C-Ring	Stainless Steel	0.009	Carbon	7440-44-0	0.15	0.00007	0.045
				Manganese	7439-96-5	1	0.00045	
				Silicon	7440-21-3	1	0.00045	
				Chromium	7440-47-3	13	0.00585	
				Iron	7439-89-6	84.85	0.03818	

MATERIAL DECLARATION SHEET



18	Front Lid	PBT	0.827	Polybutylene terephthalate	30965-26-5	54	2.2475	4.162
				Glass fiber	65997-17-3	30	1.2486	
				Brominated flame retardant (TBBPA Polycarbonate polymer)	Trade secret	11	0.4578	
				Antimony trioxide	1309-64-4	4	0.1665	
				Carbon black	1333-86-4	1	0.0416	
19	Bushing	Brass	3.309	Copper	7440-50-8	61.5	10.242	16.653
				Zinc	7440-66-6	35.5	5.912	
				Lead	7439-92-1	3	0.499	
20	Bushing Lube	Lube	0.005	Siloxanes and silicones, di-Me, di-Ph	68083-14-7	68.9	0.0172	0.025
				Lithium Stearate	4485-12-5	25.4	0.0064	
				Silane, dichlorodimethyl, reaction products with silica	68611-44-9	4.8	0.0012	
				Diphenylamine	122-39-4	0.9	0.0002	
21	Collector Bar	Nickel Silver	0.074	Nickel	7440-02-0	18	0.0670	0.372
				Copper	7440-50-8	55	0.2046	
				Zinc	7440-66-6	27	0.1004	
		Plating	0.0009	Gold	7440-57-5	100	0.005	0.005
			Total weight	19.87				

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.
3. Per [Product Update Memo SC2436](#), this MDS is under revision. The updated version will be posted soon.