


MATERIAL DECLARATION SHEET



Material Number	3549S-1AC			
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	0.5989	0.8556
				Zinc	7440-66-6	30	0.2567	
		Under plating	0.012	Nickel	7440-02-0	100	0.0389	0.0389
		Finish plating	0.0026	Gold	7440-57-5	100	0.0084	0.0084
2	Rear Cover	Nylon	0.972	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	1.3546	3.1502
				Tetrafluoroethylene polymer	9002-84-0	13	0.4095	
				Glass fiber	65997-17-3	40	1.2601	
				Silicon	7440-21-3	2	0.0630	
				Carbon black	1333-86-4	2	0.0630	
3	Slider	Nylon	0.238	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	0.3317	0.7713
				Tetrafluoroethylene polymer	9002-84-0	13	0.1003	
				Glass fiber	65997-17-3	40	0.3085	
				Silicon	7440-21-3	2	0.0154	
				Carbon black	1333-86-4	2	0.0154	
4	Contact spring	Palmet	0.013	Copper	7440-50-8	16	0.0067	0.0421
				Nickel	7440-02-0	1	0.0004	
				Palladium	7440-05-3	1	0.0004	
				Platinum	7440-06-4	44	0.0185	
				Silver	7440-22-4	38	0.0161	

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5	Housing	PBT	3.108	Polybutylene terephthalate	30965-26-5	54	5.4394	10.0729
				Glass fiber	65997-17-3	30	3.0219	
				Brominated flame retardant (TBBPA Polycarbonate polymer)	Trade secret	11	1.1080	
				Antimony trioxide	1309-64-4	4	0.4029	
				Carbon black	1333-86-4	1	0.1007	
6	Mandrel Wire	Copper	12.252	Copper	7440-50-8	100	39.7081	39.7081
		Coating	0.0001	Polyamide	63428-83-1	100	0.0003	0.0003
7	Resistive Wire	Metal	0.6246	Nickel	7440-02-0	45	0.9109	2.0243
				Copper	7440-50-8	55	1.1134	
8	Varnish	Phenolic resin	0.100	Phenolic resin	9039-25-2	100	0.3241	0.3241
9	Synthetic organic color	Color	0.006	Resin	39277-28-6	92	0.0178	0.0194
				CI Basic Violet	73398-89-7	5	0.0010	
				CI Basic Red	989-38-8	3	0.0006	
10	Element Epoxy	Epoxy	0.0005	Epoxy resin	25068-38-6	64	0.0010	0.0016
				Antimony trioxide	1309-64-4	11	0.0002	
				Aluminum oxide	1344-28-1	10	0.0002	
				Kaolin clay	1332-58-7	6	0.0001	
				Magnesium alumino silicate	1302-88-1	9	0.0001	
11	Terminal Cover	PPS	0.237	Polyphenylene sulfide	26125-40-6	57	0.4378	0.7681
				Glass fiber	65997-17-3	41	0.3149	
				Carbon black	1333-86-4	2	0.0154	
12	T.R. Terminal x 2	Nickel Silver	0.082	Copper	7440-50-8	65	0.1728	0.2658
				Zinc	7440-66-6	17	0.0452	
				Nickel	7440-02-0	18	0.0478	
		Solder Inlay	0.0001	Silver	7440-22-4	56	0.00017	0.0003
				Copper	7440-50-8	22	0.00007	
				Zinc	7440-66-6	17	0.00005	
				Tin	7440-31-5	5	0.00001	
Plating	0.0004	Gold	7440-57-5	100	0.0013	0.0013		

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13	Element, Terminal and Collector Bar Lube	Lube	0.005	Decanoic acid, mixed esters with heptanoic acid, octanoic acid	68130-53-0	54.4	0.0088	0.0162
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.0009	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.0055	
				Polyisobutylene	9003-27-4	6.2	0.0010	
14	Rotor	Nylon	1.372	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	1.9120	4.4466
				Tetrafluoroethylene polymer	9002-84-0	13	0.5781	
				Glass fiber	65997-17-3	40	1.7787	
				Silicon	7440-21-3	2	0.0889	
15	Shaft	Stainless steel	6.89	Carbon black	1333-86-4	2	0.0889	22.3301
				Iron	7439-89-6	69.85	15.5976	
				Chromium	7440-47-3	18	4.0194	
				Manganese	7439-96-5	2	0.4466	
				Silicon	7440-21-3	1	0.2233	
				Nickel	7440-02-0	9	2.0097	
16	Washer x 2	Stainless Steel	0.05	Carbon	7440-44-0	0.15	0.0335	0.1621
				Carbon	7440-44-0	0.15	0.0002	
				Manganese	7439-96-5	2	0.0032	
				Silicon	7440-21-3	1	0.0016	
				Chromium	7440-47-3	18	0.0292	
				Nickel	7440-02-0	9	0.0146	
17	C-Ring	Stainless Steel	0.009	Iron	7439-89-6	69.85	0.1133	0.0292
				Carbon	7440-44-0	0.15	0.00004	
				Manganese	7439-96-5	1	0.00029	
				Silicon	7440-21-3	1	0.00029	
				Chromium	7440-47-3	13	0.00380	
				Iron	7439-89-6	84.85	0.02478	

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18	Front Lid	PBT	0.827	Polybutylene terephthalate	30965-26-5	54	1.4474	2.6803
				Glass fiber	65997-17-3	30	0.8041	
				Brominated flame retardant (TBBPA Polycarbonate polymer)	Trade secret	11	0.2948	
				Antimony trioxide	1309-64-4	4	0.1072	
				Carbon black	1333-86-4	1	0.0268	
19	Bushing	Bronze	3.71	Copper	7440-50-8	93.45	11.2363	12.0239
				Tin	7440-31-5	6.25	0.7515	
				Phosphorus	7723-14-0	0.2	0.0241	
				Iron	7439-89-6	0.1	0.0120	
20	Bushing Lube	Lube	0.005	Siloxanes and silicones, di-Me, di-Ph	68083-14-7	68.9	0.0112	0.0162
				Lithium Stearate	4485-12-5	25.4	0.0041	
				Silane, dichlorodimethyl, reaction products with silica	68611-44-9	4.8	0.0008	
				Diphenylamine	122-39-4	0.9	0.0001	
21	Collector Bar	Nickel Silver	0.074	Nickel	7440-02-0	18	0.0431	0.2398
				Copper	7440-50-8	55	0.1319	
				Zinc	7440-66-6	27	0.0648	
		Plating	0.0009	Gold	7440-57-5	100	0.0029	0.0029
Total weight			30.8552					

This Document was updated on: March 3, 2015

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.