


MATERIAL DECLARATION SHEET



Material Number	3547S-1AC			
Product Line	Precision Potentiometer			
Compliance Date	January 31, 2007			
RoHS Compliant	Yes	MSL	N/A	

A = Brass Bushing/Brass shaft

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	0.9750	1.3929
				Zinc	7440-66-6	30	0.4179	
		Under plating	0.012	Nickel	7440-02-0	100	0.0633	0.0633
		Finish plating	0.0026	Gold	7440-57-5	100	0.0137	0.0137
2	Rear Cover	Nylon	0.972	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	2.2052	5.1284
				Tetrafluoroethylene polymer	9002-84-0	13	0.6667	
				Glass fiber	65997-17-3	40	2.0513	
				Silicon	7440-21-3	2	0.1026	
				Carbon black	1333-86-4	2	0.1026	
3	Slider	Nylon	0.238	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	0.5400	1.2557
				Tetrafluoroethylene polymer	9002-84-0	13	0.1632	
				Glass fiber	65997-17-3	40	0.5023	
				Silicon	7440-21-3	2	0.0251	
				Carbon black	1333-86-4	2	0.0251	
4	Contact spring	Palmet	0.013	Copper	7440-50-8	16	0.0110	0.0686
				Nickel	7440-02-0	1	0.0007	
				Palladium	7440-05-3	1	0.0007	
				Platinum	7440-06-4	44	0.0302	
				Silver	7440-22-4	38	0.0260	

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5	Housing	PBT	3.108	Polybutylene terephthalate	30965-26-5	54	8.8550	16.3982
				Glass fiber	65997-17-3	30	4.9195	
				Brominated flame retardant (TBBPA Polycarbonate polymer)	Trade secret	11	1.8038	
				Antimony trioxide	1309-64-4	4	0.6559	
				Carbon black	1333-86-4	1	0.1640	
6	Mandrel Wire	Copper	0.679	Copper	7440-50-8	100	3.5825	3.5825
		Coating	0.00003	Polyamide	63428-83-1	100	0.0002	0.0002
7	Resistive Wire	Metal	0.1568	Nickel	7440-02-0	45	0.3723	0.8273
				Copper	7440-50-8	55	0.4550	
8	Varnish	Phenolic resin	0.033	Phenolic resin	9039-25-2	100	0.1741	0.1741
9	Synthetic organic color	Color	0.002	Resin	39277-28-6	92	0.0098	0.0106
				CI Basic Violet	73398-89-7	5	0.0005	
				CI Basic Red	989-38-8	3	0.0003	
10	Element Epoxy	Epoxy	0.0005	Epoxy resin	25068-38-6	64	0.0016	0.0026
				Antimony trioxide	1309-64-4	11	0.0003	
				Aluminum oxide	1344-28-1	10	0.0003	
				Kaolin clay	1332-58-7	6	0.0002	
				Magnesium alumino silicate	1302-88-1	9	0.0002	
11	Terminal Cover	PPS	0.237	Polyphenylene sulfide	26125-40-6	57	0.7128	1.2505
				Glass fiber	65997-17-3	41	0.5127	
				Carbon black	1333-86-4	2	0.0250	
12	T.R. Terminal x 2	Nickel Silver	0.082	Copper	7440-50-8	65	0.2812	0.4326
				Zinc	7440-66-6	17	0.0735	
				Nickel	7440-02-0	18	0.0779	
		Solder Inlay	0.0001	Silver	7440-22-4	56	0.00028	0.0005
				Copper	7440-50-8	22	0.00011	
				Zinc	7440-66-6	17	0.000085	
				Tin	7440-31-5	5	0.000025	
Plating	0.0004	Gold	7440-57-5	100	0.0021	0.0021		

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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	0.0144	0.0264	
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.0015		
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.0089		
				Polyisobutylene	9003-27-4	6.2	0.0016		
14	Tab	Nickel	0.1924	Nickel	7440-02-0	100	1.0151	1.0151	
		Inlay	0.01757	Silver	7440-22-4	56	0.0519		0.0927
				Copper	7440-50-8	22	0.0204		
				Zinc	7440-66-6	17	0.0158		
				Tin	7440-31-5	5	0.0046		
15	Rotor	Nylon	1.372	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	3.1127	7.2389	
				Tetrafluoroethylene polymer	9002-84-0	13	0.9410		
				Glass fiber	65997-17-3	40	2.8956		
				Silicon	7440-21-3	2	0.1448		
				Carbon black	1333-86-4	2	0.1448		
16	Shaft	Stainless steel	6.89	Iron	7439-89-6	69.85	25.3922	36.3525	
				Chromium	7440-47-3	18	6.5435		
				Manganese	7439-96-5	2	0.7271		
				Silicon	7440-21-3	1	0.3635		
				Nickel	7440-02-0	9	3.2717		
				Carbon	7440-44-0	0.15	0.0545		
17	Washer x 2	Stainless Steel	0.05	Carbon	7440-44-0	0.15	0.0004	0.2638	
				Manganese	7439-96-5	2	0.0053		
				Silicon	7440-21-3	1	0.0026		
				Chromium	7440-47-3	18	0.0475		
				Nickel	7440-02-0	9	0.0237		
				Iron	7439-89-6	69.85	0.1843		

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18	C-Ring	Stainless Steel	0.009	Carbon	7440-44-0	0.15	0.00006	0.0475
				Manganese	7439-96-5	1	0.00047	
				Silicon	7440-21-3	1	0.00047	
				Chromium	7440-47-3	13	0.0062	
				Iron	7439-89-6	84.85	0.0403	
19	Front Lid	PBT	0.827	Polybutylene terephthalate	30965-26-5	54	2.3562	4.3633
				Glass fiber	65997-17-3	30	1.3090	
				Brominated flame retardant (TBBPA Polycarbonate polymer)	Trade secret	11	0.4800	
				Antimony trioxide	1309-64-4	4	0.1745	
				Carbon black	1333-86-4	1	0.0436	
20	Bushing	Bronze	3.71	Copper	7440-50-8	93.45	18.2923	19.5744
				Tin	7440-31-5	6.25	1.2234	
				Phosphorus	7723-14-0	0.2	0.0391	
				Iron	7439-89-6	0.1	0.0196	
21	Bushing Lube	Lube	0.005	Siloxanes and silicones, di-Me, di-Ph	68083-14-7	68.9	0.0182	0.0264
				Lithium Stearate	4485-12-5	25.4	0.0067	
				Silane, dichlorodimethyl, reaction products with silica	68611-44-9	4.8	0.0013	
				Diphenylamine	122-39-4	0.9	0.0002	
22	Collector Bar	Nickel Silver	0.074	Nickel	7440-02-0	18	0.0703	0.3904
				Copper	7440-50-8	55	0.2147	
				Zinc	7440-66-6	27	0.1054	
		Plating	0.0009	Gold	7440-57-5	100	0.0048	0.0048
			Total weight	18.9533	Notes:			

This Document was updated on: March 3, 2015

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.