


# 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				

**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.