


# MATERIAL DECLARATION SHEET



Material Number	<b>3548S-1AC</b>			
Product Line	<b>Precision Potentiometer</b>			
Compliance Date	<b>January 31, 2007</b>			
RoHS Compliant	<b>Yes</b>	MSL	<b>N/A</b>	

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	0.9481	1.3545
				Zinc	7440-66-6	30	0.4064	
		Under plating	0.012	Nickel	7440-02-0	100	0.0616	0.0616
		Finish plating	0.0026	Gold	7440-57-5	100	0.0133	0.0133
2	Rear Cover	Nylon	0.972	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	2.1445	4.9871
				Tetrafluoroethylene polymer	9002-84-0	13	0.6483	
				Glass fiber	65997-17-3	40	1.9949	
				Silicon	7440-21-3	2	0.0997	
				Carbon black	1333-86-4	2	0.0997	
3	Slider	Nylon	0.238	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	0.5251	1.2211
				Tetrafluoroethylene polymer	9002-84-0	13	0.1587	
				Glass fiber	65997-17-3	40	0.4885	
				Silicon	7440-21-3	2	0.0244	
				Carbon black	1333-86-4	2	0.0244	
4	Contact spring	Palmet	0.013	Copper	7440-50-8	16	0.0107	0.0667
				Nickel	7440-02-0	1	0.0007	
				Palladium	7440-05-3	1	0.0007	
				Platinum	7440-06-4	44	0.0293	
				Silver	7440-22-4	38	0.0253	

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5	Housing	PBT	3.108	Polybutylene terephthalate	30965-26-5	54	8.6110	15.9463
				Glass fiber	65997-17-3	30	4.7839	
				Brominated flame retardant (TBBPA Polycarbonate polymer)	Trade secret	11	1.7541	
				Antimony trioxide	1309-64-4	4	0.6378	
				Carbon black	1333-86-4	1	0.1595	
6	Mandrel Wire	Copper	1.13	Copper	7440-50-8	100	5.7977	5.7977
		Coating	0.00005	Polyamide	63428-83-1	100	0.0003	0.0003
7	Resistive Wire	Metal	0.2229	Nickel	7440-02-0	45	0.5146	1.1436
				Copper	7440-50-8	55	0.6290	
8	Varnish	Phenolic resin	0.052	Phenolic resin	9039-25-2	100	0.2668	0.2668
9	Synthetic organic color	Color	0.003	Resin	39277-28-6	92	0.0142	0.0154
				CI Basic Violet	73398-89-7	5	0.0008	
				CI Basic Red	989-38-8	3	0.0004	
10	Element Epoxy	Epoxy	0.0005	Epoxy resin	25068-38-6	64	0.0017	0.0026
				Antimony trioxide	1309-64-4	11	0.0003	
				Aluminum oxide	1344-28-1	10	0.0003	
				Kaolin clay	1332-58-7	6	0.0001	
				Magnesium alumino silicate	1302-88-1	9	0.0002	
11	Terminal Cover	PPS	0.237	Polyphenylene sulfide	26125-40-6	57	0.6931	1.2160
				Glass fiber	65997-17-3	41	0.4986	
				Carbon black	1333-86-4	2	0.0243	
12	T.R. Terminal x 2	Nickel Silver	0.082	Copper	7440-50-8	65	0.2735	0.4207
				Zinc	7440-66-6	17	0.0715	
				Nickel	7440-02-0	18	0.0757	
		Solder Inlay	0.00005	Silver	7440-22-4	56	0.00011	0.0002
				Copper	7440-50-8	22	0.00005	
				Zinc	7440-66-6	17	0.00003	
				Tin	7440-31-5	5	0.00001	
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	0.0140	0.0257
				Lithium 12-hydroxystearate	7620-77-1	5.7	0.0014	
				Isohexadecyl-isoctadecanoate	52006-45-8	33.7	0.0087	
				Polyisobutylene	9003-27-4	6.2	0.0016	
14	Tab	Nickel	0.1924	Nickel	7440-02-0	100	0.9872	0.9872
		Inlay	0.0176	Silver	7440-22-4	56	0.0506	
				Copper	7440-50-8	22	0.0199	
				Zinc	7440-66-6	17	0.0153	
				Tin	7440-31-5	5	0.0045	
15	Rotor	Nylon	1.372	Polyamide 66 + Polyamide 6	32131-17-2 25038-54-4	43	3.0269	7.0394
				Tetrafluoroethylene polymer	9002-84-0	13	0.9151	
				Glass fiber	65997-17-3	40	2.8158	
				Silicon	7440-21-3	2	0.1408	
				Carbon black	1333-86-4	2	0.1408	
16	Shaft	Stainless steel	6.89	Iron	7439-89-6	69.85	24.6925	35.3507
				Chromium	7440-47-3	18	6.3631	
				Manganese	7439-96-5	2	0.7070	
				Silicon	7440-21-3	1	0.3535	
				Nickel	7440-02-0	9	3.1816	
				Carbon	7440-44-0	0.15	0.0530	
17	Washer x 2	Stainless Steel	0.05	Carbon	7440-44-0	0.15	0.0004	0.2565
				Manganese	7439-96-5	2	0.0051	
				Silicon	7440-21-3	1	0.0025	
				Chromium	7440-47-3	18	0.0462	
				Nickel	7440-02-0	9	0.0231	
				Iron	7439-89-6	69.85	0.1792	

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18	C-Ring	Stainless Steel	0.009	Carbon	7440-44-0	0.15	0.00007	0.0462
				Manganese	7439-96-5	1	0.00046	
				Silicon	7440-21-3	1	0.00046	
				Chromium	7440-47-3	13	0.00601	
				Iron	7439-89-6	84.85	0.03920	
19	Front Lid	PBT	0.827	Polybutylene terephthalate	30965-26-5	54	2.2913	4.2431
				Glass fiber	65997-17-3	30	1.2729	
				Brominated flame retardant (TBBPA Polycarbonate polymer)	Trade secret	11	0.4668	
				Antimony trioxide	1309-64-4	4	0.1697	
				Carbon black	1333-86-4	1	0.0424	
20	Bushing	Bronze	3.71	Copper	7440-50-8	93.45	17.7882	19.0350
				Tin	7440-31-5	6.25	1.1897	
				Phosphorus	7723-14-0	0.2	0.0381	
				Iron	7439-89-6	0.1	0.0190	
21	Bushing Lube	Lube	0.005	Siloxanes and silicones, di-Me, di-Ph	68083-14-7	68.9	0.0177	0.0256
				Lithium Stearate	4485-12-5	25.4	0.0065	
				Silane, dichlorodimethyl, reaction products with silica	68611-44-9	4.8	0.0012	
				Diphenylamine	122-39-4	0.9	0.0002	
22	Collector Bar	Nickel Silver	0.074	Nickel	7440-02-0	18	0.0684	0.3797
				Copper	7440-50-8	55	0.2088	
				Zinc	7440-66-6	27	0.1025	
		Plating	0.0009	Gold	7440-57-5	100	0.0046	0.0046
			Total weight	19.4904	<b>Notes:</b>			

**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.