

MATERIAL DECLARATION SHEET



Material Number	6538S-1-XXX			
Product Line	Precision Potentiometer			
Compliance Date	January 02, 2006			
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	Lid Servo	Aluminum 2011-T3	4.76	Aluminum (Metal)	7429-90-5	92.93	38.002	40.893
				Bismuth	7440-69-9	0.4	0.164	
				Copper	7440-50-8	5.5	2.249	
				Iron	7439-89-6	0.345	0.141	
				Lead	7439-92-1	0.4	0.164	
				Silicon	7440-21-3	0.2	0.082	
				Zinc	7440-66-6	0.15	0.061	
				Misc, Not to Declare	N/A	0.075	0.031	
2	Ball Bearing (X2)	Stainless Steel 440	0.58	Carbon	7440-44-0	1	0.050	4.983
				Chromium	7440-47-3	16.2	0.807	
				Iron	7439-89-6	81.3	4.051	
				Manganese	7439-96-5	0.37	0.018	
				Molybdenum	7439-98-7	0.45	0.022	
				Phosphorus	7723-14-0	0.027	0.0013	
				Sulphur	7704-34-9	0.003	0.00015	
				Silicon	7440-21-3	0.4	0.020	
				Nickel	7440-02-0	0.2	0.010	
				Copper	7440-50-8	0.05	0.002	
	Lube		0.001	Ester Oil, Synthetic, for Lubricants	N/A	94	0.0081	0.0086

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				Barium Bis(Dinonylnaphthalenesulphonate)	25619-56-1	2.5	0.0002	
				Further Additives, Not to Declare	Misc, Not to Declare	3.5	0.0003	
3	C-Ring (X2)	Stainless Steel 420	0.038	Carbon	7440-44-0	0.3	0.0010	0.3265
				Chromium	7440-47-3	13	0.0424	
				Iron	7439-89-6	85.66	0.2796	
				Manganese	7439-96-5	0.5	0.0016	
				Phosphorus	7723-14-0	0.02	0.00007	
				Sulphur	7704-34-9	0.02	0.00007	
				Silicon	7440-21-3	0.5	0.002	
4	Shaft	Stainless Steel 303	2.1	Carbon	7440-44-0	0.15	0.027	18.041
				Manganese	7439-96-5	2	0.361	
				Phosphorus	7723-14-0	0.2	0.036	
				Sulfur	7704-34-9	0.15	0.027	
				Silicon	7440-21-3	0.9	0.162	
				Chromium	7440-47-3	18	3.247	
				Nickel	7440-02-0	9	1.624	
				Iron	7439-89-6	69	12.448	
5	Rotor Molded	Resin	0.074	Molybdenum	7439-98-7	0.6	0.108	0.636
				Nylon 6.6 (Polyhexamethylene Adipamide)	32131-17-2	66	0.420	
				Glass Fiber	65997-17-3	32	0.203	
6	Contact Spring	Paliney #6	0.02	Molybdenum Disulfide	1317-33-5	2	0.013	0.172
				Palladium	7440-05-3	44	0.076	
				Silver	7440-22-4	38	0.065	
				Copper	7440-50-8	16	0.027	
				Platinum	7440-06-4	1	0.002	
7	Collector Arm	BeCu CA-172	0.501	Nickel	7440-02-0	1	0.002	4.304
				Beryllium	7440-41-7	1.9	0.082	

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		alloy 25		Nickel	7440-02-0	0.3	0.013	
				Cobalt	7440-48-4	0.3	0.013	
				Iron	7439-89-6	0.3	0.013	
				Aluminum	7429-90-5	0.1	0.004	
				Silicon	7440-21-3	0.1	0.004	
				Copper	7440-50-8	96.7	4.162	
				Silver	7440-22-4	0.05	0.002	
				Misc, Not to Declare	N/A	0.25	0.011	
		Nickel Plating	0.001	Nickel	7440-02-0	100	0.009	0.009
8	Washer (X4)	Stainless Steel 301	0.078	Carbon	7440-44-0	0.15	0.0010	0.6701
				Manganese	7439-96-5	2	0.0134	
				Phosphorus	7723-14-0	0.045	0.0003	
				Sulfur	7704-34-9	0.03	0.00020	
				Silicon	7440-21-3	1	0.007	
				Chromium	7440-47-3	17	0.1139	
				Nickel	7440-02-0	7	0.0469	
				Iron	7439-89-6	72.775	0.4877	
9	Washer-Insulating	PTFE	0.0286	Polytetrafluoroethylene	9002-84-0	100	0.246	0.246
10	Collector Ring	Nickel Silver, CDA752	0.075	Copper	7440-50-8	65	0.419	0.644
				Silver	7440-22-4	0.05	0.0003	
				Iron	7439-89-6	0.125	0.0008	
				Manganese	7439-96-5	0.25	0.0016	
				Nickel	7440-02-0	18	0.116	
				Cobalt	7440-48-4	0.5	0.003	
				Lead	7439-92-1	0.025	0.0002	
				Zinc (Metal)	7440-66-6	15.8	0.102	
				Misc., Not to Declare	System	0.25	0.002	
		Gold Plating	0.0005	Gold	7440-57-5	100	0.0043	0.0043
11	Cover	Resin	2.98	Diallyl Phthalate Polymer	25053-15-0	37	9.47	25.601
				Polyester Resin	68604-67-1	1	0.256	
				Calcium Silicate	13983-17-0	7.7	1.971	

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				Amorphous Silica	61790-53-2	1.5	0.384	
				Glass Fiber	65997-17-3	41	10.50	
				Alumina Trihydrate	21645-51-2	2.6	0.666	
				Calcium Stearate	1592-23-0	1	0.256	
				Antimony Trioxide	1309-64-4	3.1	0.794	
				Bis (Tetrabromophthalimido)Ethane	32588-76-4	5.1	1.306	
12	Ink	Ink	0.002	Phenolic Resin	9039-25-2	13	0.002	0.017
				Silver	7440-22-4	86	0.015	
				Graphite	7782-42-5	1	0.0002	
13	Ink	Ink	0.002	2,2,4-Trimethyl-1,3-Pentane-Diol	6846-50-0	34.4	0.006	0.017
				Formaldehyde, Polymer with 3-Chloro-1-Propene and Phenol	28470-78-2	27	0.005	
				Carbon Black	1333-86-4	36	0.006	
				Silica, Amorphous Fumed	112945-52-5	0.5	0.000	
				Dimethylsilicone	63148-62-9	2.1	0.000	
14	Ink	Ink	0.002	Barium Sulfate	7727-43-7	28	0.005	0.017
				Formaldehyde, Polymer with 3-Chloro-1-Propene and Phenol	28470-78-2	43.8	0.008	
				Carbon Black	1333-86-4	16.8	0.003	
				Titanium Dioxide	1317-70-0	6.83	0.001	
				Silica, Amorphous Fumed	112945-52-5	0.6	0.000	
				1-Propene, 1,1,2,3,3,3-Hexafluoro-, Polymer with Tetrafluoroethene	25067-11-2	0.95	0.000	
				Acrylic Polymer	63148-62-9	3.02	0.001	
15	Conductive Epoxy	Epoxy	0.001	Biphenyl A Polyglycidyl Ether	25068-38-6	27	0.002	0.009
				Butyl Glydicyl Ether	2426-08-6	9	0.0008	

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				Silver	7440-22-4	64	0.0055	
16	Terminal (X3)	Brass C360	0.37	Copper	7440-50-8	61.5	1.955	3.179
				Iron	7439-89-6	0.2	0.006	
				Lead	7439-92-1	3	0.095	
				Zinc	7440-66-6	35	1.113	
				Misc, Not to Declare	N/A	0.3	0.010	
		Under plating	0.001	Nickel	7440-02-0	100	0.009	0.009
		Plating	0.001	Gold	7440-57-5	100	0.009	0.009
17	Label	Thermifilm	0.016	Polyethylene Terephthalate	25038-59-9	71.6	0.10	0.137
				Aluminium (Metal)	7429-90-5	0.07	0.0001	
				White Phosphorus	12185-10-3	0.03	0.00004	
				Polyethylene Terephthalate	25038-59-9	0.5	0.0007	
				Saturated Polyester Resin	61926-16-7	0.5	0.0007	
				2-Propenoic Acid, Polymer with Ethenyl Acetate, 2-Ethylhexyl 2-Propenoate and 2-Hydroxyethyl 2-Propenoate	50862-46-9	27	0.04	
				Misc, Not to Declare	N/A	0.3	0.0004	
18	Ink	Ink	0.0005	Polyester Resin	149027-65-6	30	0.0013	0.004
				Hydrocarbon Waxes (Petroleum), Oxidized	64743-00-6	3	0.0001	
				Carbon Black	1333-86-4	23.5	0.0010	
				Carnauba-Wax	8015-86-9	20.5	0.0009	
				Vinyl Chloride-Vinyl Acetate Copolymers	9003-22-9	12	0.0005	
				Acrylic Resin	N/A	9	0.0004	
				Styrene-Butadiene Rubber	9003-55-8	2	0.0001	
19	Lube	Lube	0.001	Decanoic Acid, Mixed Esters with Heptanoic Acid, Octanoic Acid, Trimethylolpropane	68130-53-0	54.4	0.005	0.009
				Lithium 12-Hydroxystearate	7620-77-1	5.7	0.0005	

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				Isohexadecyl-Isooctadecanoate	52006-45-8	33.7	0.003	
				Polyisobutylene	9003-27-4	6.2	0.0005	
20	Epoxy	Epoxy	0.007	Epoxy Resin	25085-99-8	46.95	0.026	0.056
				Quartz, (SiO2)	14808-60-7	35.3	0.020	
				Kaolin Clay	1332-58-7	14	0.008	
				Bisphenol A Diglycidyl Ether Resin	25068-38-6	1.4	0.0008	
				Titanium Dioxide	13463-67-7	1.2	0.00067	
				Pigment Blue	147-14-8	0.729	0.00041	
				Aluminum Oxide	1344-28-1	0.031	0.000017	
				Acrylic Polymer	Trade Secret	0.39	0.00022	
		Total weight	11.640					

This Document was updated on: **10/30/2025**

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.