


MATERIAL DECLARATION SHEET



Material Number	6538S			
Product Line	Precision Potentiometer			
Compliance Date	1974			
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	Bearing Ball X 2	Stainless Steel	0.6	Carbon	7440-44-0	1	0.042	4.196
				Silicon	7440-21-3	1	0.042	
				Manganese	7439-96-5	1	0.042	
				Phosphorus	7723-14-0	0.04	0.002	
				Sulfur	7704-39-9	0.03	0.002	
				Chromium	7440-47-3	17	0.714	
				Nickel	7440-02-0	0.6	0.026	
				Molybdenum	7439-98-7	0.75	0.032	
				Iron	7439-89-6	78.58	3.296	
2	Collector Ring	Nickel Silver	0.075	Copper	7440-50-8	65	0.341	0.524
				Nickel	7440-02-0	18	0.094	
				Zinc	7440-66-6	17	0.089	
		Plating	0.0000684	Gold	7440-57-5	100	0.0005	0.0005
3	Shim	Teflon	0.0075	Polytetrafluoroethylene	9002-84-0	15	0.008	0.052
				1-Dichloro-1-Fluoroethane	1717-00-6	85	0.045	
4	Resistive Ink	Ink	0.0015	Phenolic Resin		38	0.004	0.011
				Fume silica	112945-52-5	1	0.0001	
				Carbon Black	1333-86-4	10	0.001	
				Silver	7440-22-4	50	0.005	

MATERIAL DECLARATION SHEET



5	Resistive Ink	Ink	0.0015	Phenolic Resin		67	0.007	0.011
				Teflon	9002-84-2	1	0.0001	
				Fume silica	112945-52-5	1	0.0001	
				BaSO4	7727-43-7	17	0.002	
				TiO2	13463-67-7	5	0.0005	
				Carbon Black	1333-86-4	9	0.0009	
6	Termination Ink	Ink	0.0005	Phenolic Resin	9039-25-2	13	0.0005	0.004
				Silver	7440-22-4	85	0.003	
				Graphite	7782-42-5	1	0.00003	
7	Conductive Epoxy	DAP Compound	0.0004	Bisphenol A Polyglycidyl Ether	25068-38-6	27	0.001	0.003
				Butyl Glydicyl Ether	2426-08-6	9	0.0003	
				Silver	7440-22-4	64	0.002	
8	Cover	DAP Compound	3.5145	Antimony Trioxide	1309-64-4	5	1.229	24.574
				Aluminum Hydroxide	21645-51-2	20	4.915	
				Diallyl Phthalate		40	9.829	
				Glass Fiber	65997-17-3	35	8.601	
9	Terminal	Brass	0.125	Copper	7440-50-8	61.5	0.538	0.874
				Lead	7439-92-1	3	0.026	
				Zinc	7440-66-6	35.5	0.31	
		Plating	0.012	Gold	7440-57-5	100	0.084	0.084
11	Lid	Aluminum	7.55	Aluminum	7429-90-5	93.7	49.464	52.789
				Copper	7440-50-8	5.5	2.903	
				Bismuth	7440-69-9	0.4	0.211	
				Lead	7439-92-1	0.4	0.211	
12	C-Ring	Stainless Steel	0.01	Iron	1309-37-1	84	0.059	0.07
				Chromium	7440-47-3	13	0.009	
				Silicon	7440-21-3	1	0.001	
				Manganese	7439-96-3	1	0.001	
				Carbon	7440-44-0	1	0.001	

MATERIAL DECLARATION SHEET



13	Collector Arm	Beryllium Copper	0.5	Beryllium	7440-41-7	1.5	0.52	3.496
				Copper	7440-50-8	98.1	3.429	
				Silicon	7740-21-3	0.2	0.007	
				Aluminum	7429-90-5	0.2	0.007	
14	Contact Spring	Palmet	0.02	Copper	7440-50-8	16	0.22	0.139
				Nickel	7440-02-0	1	0.001	
				Palladium	7440-05-3	1	0.001	
				Platinum	7440-22-4	44	0.062	
				Silver	7440-22-4	38	0.053	
15	Rotor	PPS	0.434	Polyphenylene Sulfide	26125-40-6	100	3.035	3.035
16	Shaft	Stainless Steel	1.43	Nickel	7440-02-0	9	0.899	9.999
				Chromium	7440-47-3	18	1.799	
				Iron	1309-37-1	69.85	6.984	
				Manganese	7439-96-5	2	0.2	
				Silicon	7440-21-3	1	0.1	
				Carbon	7440-44-0	0.15	0.015	
17	Washer	Stainless Steel	0.01	Iron	7439-89-6	69.85	0.049	0.069
				Chromium	7440-47-3	18	0.013	
				Manganese	7439-96-3	2	0.001	
				Nickel	7440-02-0	9	0.006	
				Silicon	7440-21-3	1	0.001	
				Carbon	7440-44-0	0.15	0.0001	
18	Washer	Stainless Steel	0.01	Iron	7439-89-6	69.85	0.049	0.069
				Chromium	7440-47-3	18	0.013	
				Manganese	7439-96-3	2	0.001	
				Nickel	7440-02-0	9	0.006	
				Silicon	7440-21-3	1	0.001	
				Carbon	7440-44-0	0.15	0.0001	
		Total weight	14.302					

MATERIAL DECLARATION SHEET

BOURNS®

This Document was updated on: May 24, 2006

Important remarks:

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

Per [Product Update Memo SC2436](#), this MDS is under revision. The updated version will be posted soon.