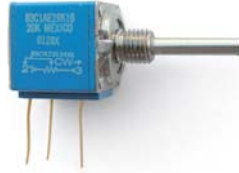


# MATERIAL DECLARATION SHEET



Material Number	83-L (Single Cup)			
Product Line	Precision Potentiometer			
Compliance Date	December 31, 2005			
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	Rotor Driver	Zinc	0.968	Zinc	7440-66-6	95	4.919	5.178
				Aluminum	7429-90-5	4	0.207	
				Copper	7440-50-8	1	0.052	
2	Shaft	Brass	6.499	Copper	7440-50-8	61.5	21.38	34.765
				Zinc	7440-66-6	35.5	12.34	
		Plating	0.00593	Nickel	7440-02-0	100	0.032	
3	Rivet X 4	Aluminum	0.68	Aluminum	7429-90-5	95.15	3.461	3.638
				Chromium	7440-47-3	0.1	0.004	
				Copper	7440-50-8	2.5	0.091	
				Iron	7439-89-6	0.7	0.025	
				Magnesium	7439-98-5	0.3	0.011	
				Manganese	7439-96-5	0.2	0.007	
				Silicon	7440-21-3	0.8	0.029	
Zinc	7440-66-6	0.25	0.009					
4	Lube	Grease	0.00865	Polysiloxane		79	0.037	0.046
				Lithium Stearate	4485-12-5	20	0.009	
				Lithium Hydroxide	1310-65-2	1	0.001	

# MATERIAL DECLARATION SHEET



5	Bushing	Aluminum	0.9	Aluminum	7429-90-5	93.7	4.511	4.814
				Copper	7440-50-8	5.5	0.265	
				Bismuth	7440-69-9	0.4	0.019	
				Lead	7439-92-1	0.4	0.019	
6	Rear Cover	Stainless Steel	0.92	Carbon	7440-44-0	0.013	0.0001	1.539
				Manganese	7435-96-5	1.84	0.091	
				Phosphorus	7723-14-0	0.03	0.002	
				Sulfur	7704-34-9	0.002	0.0001	
				Silicon	7440-21-3	0.1	0.005	
				Chromium	7440-47-3	18.61	0.916	
				Nickel	7440-02-0	9.9	0.487	
				Molybdenum	7439-92-1	0.42	0.021	
				Copper	7440-50-8	0.37	0.018	
				Nitrogen	7727-37-9	0.05	0.003	
				Iron	7439-89-6	68.68	3.379	
				7	Front Cover	Stainless Steel	0.716	
Manganese	7435-96-5	2	0.077					
Silicon	7440-21-3	1	0.038					
Chromium	7440-47-3	18	0.689					
Nickel	7440-02-0	9	0.345					
Iron	7439-89-6	69.85	2.676					
8	Washer	PTFE	0.007	Polytetrafluoroathylene	9002-84-0	15	0.006	0.038
				1-Dichloro-1-Fluoroathane	1717-00-6	85	0.032	
9	Spring Washer	Beryllium Copper	0.031	Copper	7440-50-8	98.1	0.163	0.166
				Silicon	7440-21-3	0.2	0.0003	
				Beryllium	7440-41-7	1.5	0.003	
				Aluminum	7429-90-5	0.2	0.0003	

# MATERIAL DECLARATION SHEET



10	Lube	Lube	0.00865	Polysiloxane		100	0.046	0.046
11	Mandrel Wire	Copper	2.252	Copper	7440-50-8	100	12.047	12.047
12	Resistive Wire	Alloy	0.5783	Nickel	7440-02-0	75	2.32	3.094
				Chromium	7440-47-3	21	0.649	
				Other (Al, Si, Cu, Co, Mn)		4	0.124	
13	Body	PBT	2.25	Glass	65997-17-3	30	3.611	12.036
				Antimony Oxide	1309-64-4	2.5	0.301	
				Antimony Compounds	7440-36-0	2.5	0.301	
				Poly(butylene terephthalate)	30965-26-5	65	7.823	
14	T.R. Terminal X 2	Nickel Silver	0.196	Copper	7440-50-8	65	0.681	1.049
				Nickel	7440-02-0	18	0.189	
				Zinc	7440-66-6	17	0.178	
		Inlay	0.004292	Silver	7440-22-4	56	0.013	0.023
				Copper	7440-50-8	22	0.005	
				Zinc	7440-66-6	17	0.004	
				Tin	7440-31-5	5	0.001	
Plating	0.002146	Gold	7440-57-5	100	0.011	0.011		
15	Front Lid	PBT	0.5	Glass	65997-17-3	30	0.802	2.675
				Antimony Oxide	1309-64-4	2.5	0.067	
				Antimony Compounds	7440-36-0	2.5	0.067	
				Poly(butylene terephthalate)	30965-26-5	65	1.739	
16	Rear Lid	PBT	0.45	Glass	65997-17-3	30	0.722	2.407
				Antimony Oxide	1309-64-4	2.5	0.06	
				Antimony Compounds	7440-36-0	2.5	0.06	
				Poly(butylene terephthalate)	30965-26-5	65	1.565	
17	Slider	Nylon	0.2152	Nylon 6/6	32131-17-2	64	0.767	1.151
				Glass Fibers	65997-17-3	29	0.334	
				Polytetrafluoroethylene	9002-84-0	7	0.081	

# MATERIAL DECLARATION SHEET



18	Contact Spring	Palmet	0.0104	Palladium	7440-05-3	35	0.019	0.056
				Silver	7440-22-4	30	0.017	
				Copper	7440-50-8	14	0.008	
				Gold	7440-57-5	10	0.006	
				Platinum	7440-06-4	10	0.006	
				Zinc (metal)	7440-66-6	1	0.0006	
19	Collector Bar	Nickel Silver	0.0699	Copper	7440-50-8	65	0.243	0.374
				Nickel	7440-02-0	18	0.067	
				Zinc	7440-66-6	17	0.064	
		Plating	0.00034	Nickel	7440-02-0	100	0.002	0.002
Plating	0.00034	Gold	7440-57-5	100	0.002	0.002		
20	Rotor	PBT	1.344	Glass	65997-17-3	30	2.157	7.189
				Antimony Oxide	1309-64-4	2.5	0.179	
				Antimony Compounds	7440-36-0	2.5	0.179	
				Poly(butylene terephthalate)	30965-26-5	65	4.673	
21	Wiper Terminal	Brass	0.0679	Copper	7440-50-8	70	0.254	0.363
				Zinc	7440-66-6	30	0.109	
		Plating	0.00028	Nickel	7440-02-0	100	0.001	0.001
		Plating	0.00028	Gold	7440-57-5	100	0.001	0.001
22	Lube	Lube	0.00865	Chloropheylmethyl Silicone		100	0.046	0.046
		Total weight	18.694					

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