


MATERIAL DECLARATION SHEET



Material Number	3501H-1-103L			
Product Line	Precision Pot			
Compliance Date				
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	Mandrel Wire	Copper	1.00700	Copper	7440-22-4	100.00	1.007	4.2640
		Coating	0.00010	Polyamide	6342-83-1	100.00	0.000	0.0004
2	Resist Wire	Metal	3.2950	Nickel	7440-02-0	74.00	2.438	13.9522
				Chromium	7440-47-3	21.00	0.692	
				Manganese	7439-96-5	1.00	0.033	
				Silicon	7440-21-3	1.00	0.033	
				Aluminum	7440-44-0	1.00	0.033	
				Copper	7723-14-0	1.00	0.033	
				Cobalt	7704-34-9	1.00	0.033	
3	Epoxy	Epoxy BP-FRC	0.00100	Epoxy resin	25085-99-8	49.00	0.00049	0.0042
				Antimony trioxide	1309-64-4	11.00	0.00011	
				silicon dioxide	7440-21-3	11.00	0.00011	
				aluminum oxide	1344-28-1	11.00	0.00011	
				kaolin clay	1332-58-7	9.00	0.00009	
				Mg alumino silicate	1302-88-1	9.00	0.00009	
4	Varnish	Insulating Varnish	0.0970	Phenolic Resin	9039-25-2	100.00	0.097	0.4107

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5	Housing	PBT	4.5470	PBT	30965-26-5	49.00	2.228	19.2537
				glass fiber	65997-17-3	35.00	1.591	
				brominated flame retardant		10.00	0.455	
				antimony trioxide	1309-64-4	6.00	0.273	
6	Tab	Silver solder Alloy	0.0100	Silver	7440-22-4	56.00	0.006	0.0423
				copper	7440-50-8	22.00	0.002	
				Zinc	7440-66-6	17.00	0.002	
				Tin	7440-31-5	5.00	0.001	
				Nickel	7440-02-0	0.15	0.000	
7	Terminal Cap	Nickel	0.0046	Nickel	7440-02-0	100.00	0.0046	0.0195
		Plating	0.0010	Gold	7440-57-5	100.00	0.0010	0.0042
8	T.R Terminal X 3	Brass	0.3100	Copper	7440-50-8	97.47	0.302	1.3127
				Zinc	7440-66-6	0.10	0.000	
				Phosphorus	7723-14-0	0.03	0.000	
				Iron	7439-98-7	2.40	0.007	
		Under Plating	0.0057	Nickel	7440-02-0	100.00	0.006	0.0240
Finish Plating	0.0200	Gold	7440-57-5	100.00	0.020	0.0847		
9	Epoxy (Terminals)	Epoxy BP-8	0.0900	epoxy resin	25085-99-8	51.00	0.05	0.3811
				silicon dioxide	7440-21-3	34.00	0.03	
				kaolin clay	1332-58-7	15.00	0.01	
10	Retaining Ring	Stain Steel	0.07900	Chromium	7440-47-3	13.00	0.01027	0.3345
				Carbon	7440-44-0	1.00	0.00079	
				Silicon	7440-21-3	1.00	0.00079	
				Manganese	7439-96-3	1.00	0.00079	
				Iron	1309-37-1	84.00	0.06636	
11	Lid Molded	PBT	0.77000	PBT	30965-26-5	49.00	0.3773	3.2605
				glass fiber	65997-17-3	35.00	0.2695	
				brominated flame retardant		10.00	0.0770	
				antimony trioxide	1309-64-4	6.00	0.0462	

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12	Bushing	Aluminum	1.17600	aluminum	7429-90-5	50.000	0.588	4.9796
				copper	7440-50-8	50.000	0.588	
13	Rotor	PBT	1.56200	PBT	30965-26-5	49.00	0.7654	6.6141
				glass fiber	65997-17-3	35.00	0.5467	
				brominated flame retardant		10.00	0.1562	
				antimony trioxide	1309-64-4	6.00	0.0937	
14	Shaft	Stainless steel	8.79800	carbon	7440-44-0	0.15	0.0132	37.2540
				manganese	7439-96-5	2.00	0.1760	
				phosphorus	7723-14-0	0.20	0.0176	
				sulfur	7704-34-9	0.15	0.0132	
				silicon	7440-21-3	0.90	0.0792	
				chromium	7440-47-3	18.00	1.5836	
				nickel	7440-02-0	9.00	0.7918	
				iron	7439-89-6	69.00	6.0706	
molybdenum	7439-98-7	0.60	0.0528					
15	Washer	Stainless steel	0.0235	carbon	7440-44-0	0.15	0.00	0.0995
				manganese	7439-96-5	2.00	0.00	
				phosphorus	7723-14-0	0.05	0.00	
				sulfur	7704-34-9	0.03	0.00	
				silicon	7440-21-3	1.00	0.00	
				chromium	7440-47-3	17.00	0.00	
				nickel	7440-02-0	7.00	0.00	
				iron	7439-89-6	72.78	0.02	
16	Washer	Teflon	0.0145	Polytetrafluoroethylene	9002-84-0	100.00	0.01	0.0614
17	Slider	Polyamide	0.14100	Polyamide 66	32131-17-2	90.00	0.13	0.5970
				glass fiber	65997-17-3	10.00	0.01	
18	Contact Spring	Palmet	0.01000	Copper	7440-50-8	16.00	0.0016	0.0423
				Nickel	7440-02-0	1.00	0.0001	
				Palladium	7440-05-3	1.00	0.0001	

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				Platinum	7440-06-4	44.00	0.0044	
				Silver	7440-22-4	38.00	0.0038	
19	Collector Bar	Beryllium Copper	0.02240	Copper	7440-50-8	98.10	0.0220	0.0948
				Silicon	7440-21-3	0.20	0.0000	
				Beryllium	7440-41-7	1.50	0.0003	
				Aluminum	7429-90-5	0.20	0.0000	
				Under Plating	0.00320	Nickel	7440-02-0	
		Finish Plating	0.00320	Gold	7440-57-5	100.00	0.0032	0.0135
20	Cover	PBT	1.06600	PBT	30965-26-5	49.00	0.52234	4.5138
				glass fiber	65997-17-3	35.00	0.37310	
				brominated flame retardant		10.00	0.10660	
				antimony trioxide	1309-64-4	6.00	0.06396	
21	Epoxy (Lid and Cover)	Epoxy BP-22	0.2320	Epoxy resin	25085-99-8	61.00	0.14	0.9824
				silicon dioxide	7440-21-3	23.00	0.05	
				kaolin clay	1332-58-7	16.00	0.04	
22	Wiper Terminal	Brass	0.32290	Copper	7440-50-8	94.80	0.30611	1.3673
				Tin	7440-31-5	5.00	0.01615	
				Phosphorus	7723-14-0	0.20	0.00065	
		Under Plating	0.00075	Nickel	7440-02-0	100.00	0.00075	0.0032
		Finish Plating	0.00165	Gold	7440-57-5	100.00	0.00165	0.0070
23	Lube	Lube 799	0.00090	Decanoic acid, mixed esters with heptanoic acid, octanoic acid	68130-53-0	54.40	0.00049	0.0038
				Lithium 12-hydroxystearate	7620-77-1	5.70	0.00005	
				Isohexadecylisooctadecanoate	52006-45-8	33.70	0.00030	
				Polyisobutylene	9003-27-4	6.20	0.00006	

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24	Lube	Versilube G321	0.00090	Siloxanes and Silicones, di-Me, di-Ph	68038-14-7	68.9	0.00062	0.0038
				Lithium stearate	4485-12-5	25.4	0.00023	
				Silane, dichlorodimethyl-reaction products with silica	68611-44-9	4.8	0.00004	
				Diphenylamine	122-39-4	0.9	0.00001	
		Total weight	23.62					

This Document was updated on: September/03/14

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