


# MATERIAL DECLARATION



Material Number	95 CP Long Life Element (Single Cup)			
Product Line	Panel Controls			
Compliance Date	December 12, 2012			
RoHS2 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	Substrate	Ceramic	0.3	Aluminum Oxide	1344-28-1	96	2.0119	2.0957
				Silicon Oxide	7631-86-9	2	0.0419	
				Magnesium Oxide	1309-48-4	1	0.02095	
				Calcium Oxide	1305-78-8	1	0.02095	
2	Conductor Ink	Ink	0.003	Silver	7440-22-4	76	0.01596	0.0210
				Palladium	7440-05-3	10	0.0021	
				Disbismuth-trioxide	1304-76-3	10	0.0021	
				Ruthenium(IV)oxide	12036-10-1	1	0.00021	
				Silicon dioxide	7631-86-9	1	0.00021	
				Nickel-monoxide	1313-99-1	1	0.00021	
				Lead-monoxide	1317-36-8	1	0.00021	
3	Resistive Ink	Ink	0.0015	Phenolic Resin	9039-25-2	67	0.007035	0.0105
				DAIP resin	1087-21-4	6	0.00063	
				Carbon Black	1333-86-4	7	0.000735	
				Barium sulfate	7727-43-7	16	0.00168	
				Graphite	7782-42-5	4	0.00042	
4	Terminal Wire	Copper	0.03	Copper	7440-50-8	100	0.2096	0.2096
		Plating	0.00003	Tin	7440-31-5	100	0.0002	0.0002

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5	Contact Spring	Strip Laminated	0.05	Copper	7440-50-8	70	0.24451	0.3493
				Zinc	7440-66-6	30	0.10479	
		Spacer Strip	0.04	Nickel	7440-02-0	18	0.050292	0.2794
				Copper	7440-50-8	55	0.15367	
		Solder Inlay	0.0015	Zinc	7440-66-6	27	0.075438	0.0105
				Tin	7440-31-5	94.2	0.009891	
				Silver	7440-22-4	5	0.000525	
				Bismuth	7440-69-9	0.3	0.0000315	
		Wire	0.03	Impurities		0.5	0.0000525	0.2096
				Palladium	7440-05-3	35	0.07336	
				Silver	7440-22-4	30	0.06288	
				Copper	7440-50-8	14	0.029344	
				Platinum	7440-06-4	10	0.02096	
Gold	7440-57-5			10	0.02096			
6	Brass Shaft	Brass	7.00	Zinc	7440-66-6	35.4	17.3107	48.9003
				Copper	7440-50-8	61.5	30.0737	
				Lead	7439-92-1	3.1	1.5159	
		Nickel plating	0.07	Nickel	7440-02-0	100	0.4890	0.4890
7	Rotor	PBT	1.95	Glass	65997-17-3	30	4.08666	13.6222
				Poly(butylene terephthalate)	30965-26-5	55	7.49221	
				Brominated flame retardant	Trade secret	11	1.498442	
				Antimony Oxide	1309-64-4	4	0.544888	
8	Body	PBT	2.65	Glass	65997-17-3	30	5.55369	18.5123
				Poly(butylene terephthalate)	30965-26-5	55	10.181765	
				Brominated flame retardant	Trade secret	11	2.036353	
				Antimony Oxide	1309-64-4	4	0.740492	

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9	Bushing	Aluminum	1.2	Aluminum	7429-90-5	93.7	7.9793983	8.3829
				Copper	7440-50-8	5.5	0.4683745	
				Bismuth	7440-69-9	0.4	0.0340636	
				Lead	7439-92-1	0.4	0.0340636	
		Plating	0.0011	Nickel	7440-02-0	100	0.0078	0.0077
10	Rear Cover	PBT	0.65	Glass	65997-17-3	30	1.38399	4.5407
				Poly(butylene terephthalate)	30965-26-5	55	2.537315	
				Brominated flame retardant	Trade secret	11	0.507463	
				Antimony Oxide	1309-64-4	4	0.184532	
11	Drive Pin	Carbon Steel	0.05	Carbon	7440-44-0	0.2	0.0007098	0.3493
				Manganese	7439-96-5	0.8	0.0028392	
				Phosphorus	7723-14-0	0.03	0.00010647	
				Sulfur	7704-34-9	0.05	0.00017745	
				Silicon	7440-21-3	0.35	0.00124216	
				Aluminum	7429-90-5	0.05	0.00017745	
		Iron	7439-89-6	98.52	0.34964748			
Plating	0.0001	Zinc	7440-66-6	100	0.0007	0.0007		
12	Washer	Teflon	0.007	Polytetrafluoroethylene	9002-84-0	15	0.007455	0.0489
				1-Dichloro-1-Fluoroethane	1717-00-6	85	0.042245	
13	Washer	Teflon	0.0036	Polytetrafluoroethylene	9002-84-0	15	0.00384	0.0252
				1-Dichloro-1-Fluoroethane	1717-00-6	85	0.02176	
14	Spring Washer	Beryllium Copper	0.031	Copper	7440-50-8	98.1	0.21582	0.2166
				Silicon	7440-21-3	0.2	0.00044	
				Beryllium	7440-41-7	1.5	0.0033	
				Aluminum	7429-90-5	0.2	0.00044	

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15	Lube	Lube	0.021	Siloxanes	68086-14-7	68.9	0.102661	0.1467
				Lithium Stearate	4485-12-5	25.4	0.037846	
				Silane, dichlorodimethyl- reaction products with silica	68611-44-9	4.8	0.007152	
				Diphenylamine	122-39-4	0.9	0.001341	
16	Solder Lug Terminals	Brass with matte tin plating	0.18	Copper	7440-50-8	70	0.8802	1.2574
				Lead	7439-92-1	0.05	0.0006	
				Iron	7439-89-6	0.05	0.0006	
				Zinc	7440-66-6	29.9	0.3760	
			0.01	Tin	7440-31-5	100	0.0698	0.0698
17	Solder	Solder	0.035	Tin	7440-31-5	96.5	0.2360	0.2445
				Silver	7440-22-4	3.0	0.0073	
				Copper	7440-50-8	0.5	0.0012	
		Total weight	14.31483					

**This Document created:** December 18, 2012

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS2 exemptions used: 6b – lead in aluminum alloy; 6c- lead in copper alloy; 7c-I – electronic components containing lead in a glass...
3. Per [Product Update Memo SC2436](#), this MDS is under revision. The updated version will be posted soon.