


# MATERIAL DECLARATION SHEET



Material Number	3310C-L			
Product Line	Panel Controls			
Compliance Date	December 31, 2004			
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	Copper Wire (2)	Copper Alloy	0.421	Copper	7440-508	100	29.944	29.94
		Plating	0.017	Tin	7440-315	100	1.21	1.21
2	Substrate	Alumina	0.154	Alumina	1344-281	100	10.961	10.96
3	Termination Ink	Ink	0.0006	Silver	7440-22-4	88	0.03758	0.04
				Palladium	7440-05-3	6	0.00256	
				Lead oxide glass	1317-36-8	1	0.00043	
				Bismuth trioxide	1304-76-3	2.9	0.00124	
				Boron oxide	1303-86-2	0.9	0.00038	
				Copper oxide	1317-39-1	1.2	0.00051	
4	Resistive Ink	Ink	0.0004	Graphite	7782-425	8.2	0.0023	0.03
				Carbon Black	1333-86-4	41.7	0.0119	
				Carbon	7440-44-0	4.2	0.0012	
				Amorphous Silica	7631-86-9	4.2	0.0012	
				Phenol/formaldehyde polymer resin	9003-35-4	41.7	0.0119	

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5	Resistive Ink	Ink	0.0003	Graphite	7782-42-5	16.1	0.0034	0.02
				Carbon Black	1333-86-4	16.1	0.0034	
				Silver	7440-22-4	62.5	0.0133	
				Phenol/formaldehyde polymer resin	9003-35-4	5.3	0.0011	
6	Housing	PBT	0.485	Polybutylene terephthalate	30965-26-5	55	18.9857	34.52
				Glass Fiber	65997-17-3	30	10.3559	
				Antimony trioxide	1309-64-4	4	1.3808	
				Brominated FR (TBBPA polycarbonate polymer)	Trade secret	11	3.7971	
7	O-Ring	Silicon	0.0113	Silicon Rubber	63394-02-5	100	0.8043	0.80
8	Rotor / Shaft	PBT	0.228	Polybutylene terephthalate	30965-26-5	55	8.9253	16.23
				Glass fiber	65997-17-3	30	4.8683	
				Antimony trioxide	1309-64-4	4	0.6491	
				Brominated FR (TBBPA polycarbonate polymer)	Trade secret	11	1.7850	
9	Nickel Strip	Nickel Alloy	0.0002	Nickel	7440-02-0	100	0.0142	0.02
10	Nickel Silver Wire	Copper Alloy	0.0002	Copper	7440-50-8	55	0.0078	0.02
				Nickel	7440-02-0	18	0.0026	
				Zinc	7440-666	27	0.0038	

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11	Laminated Back Up Strip	Copper Alloy	0.004	Copper	7440-508	70	0.1993	0.29
				Zinc	7440-666	30	0.0854	
12	Lube	Lube	0.0015	Siloxanes/silicones	63148-56-1	70	0.0747	0.11
				Tetrafluoroethane	9002-84-0	30	0.0320	
13	Lube	Lube	0.0015	Siloxanes/silicones	63148-56-1	70	0.0747	0.11
				Tetrafluoroethane	9002-84-0	30	0.0320	
14	Epoxy	Epoxy	0.08	Epoxy resin	25085-99-8	49	2.7900	5.70
				Antimony trioxide	1309-64-4	11	0.6263	
				Silicon dioxide	7440-21-3	11	0.6263	
				Aluminum oxide	1344-28-1	11	0.6263	
				Kaolin clay	1332-58-7	9	0.5125	
				Magnesium alumino silicate	1302-88-1	9	0.5125	
		Total weight	1.405					

This Document was updated on: 11-29-2011

## Important remarks:

- 1 It is the responsibility of the user to verify they are accessing the latest version.
- 2 RoHS exemption: 7(c)-I – electrical and electronic components containing lead in a glass or ceramic...