


MATERIAL DECLARATION SHEET



Material Number	3310Y			
Product Line	Panel control			
Compliance Date	31-Dec-04			
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	0.42100	Copper	7440-22-4	100	21.723	21.723
		Plating	0.01800	Tin	7440-31-5	100	0.929	0.929
2	Ceramic substrate	Alumina	0.15100	Alumina	1344-28-1	100	7.792	7.792
3	Termination Ink	Ink	0.0004	Silver	7440-22-0	91	0.0191	0.021
				Bismuth trioxide	1304-76-3	9	0.0019	
4	Resistive Ink 1	Ink	0.0021	Talc	14807-96-6	29	0.0313	0.108
				Carbon Black	1333-86-4	67	0.0724	
				Further additives not to declare	Trade secret	4	0.0043	
5	Resistive Ink 2	Ink	0.0022	Talc	14807-96-6	29	0.0330	0.114
				Further additives not to declare	Trade secret	4	0.0046	
				Carbon Black	1333-86-4	67	0.0764	
6	Hex nut	Brass Alloy	0.101	Copper	7440-50-8	70	3.6484	5.212

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				Zinc	7440-66-6	30	1.5636	
		plating	0.0252	Nickel	7440-02-0	100	1.3	1.300
7	Lock washer	Stainless Steel Alloy	0.0030	Carbon	7440-44-0	0.51	0.00079	0.155
				Manganese	7439-98-5	0.75	0.00116	
				Phosphorus	7723-14-0	0.02	0.00003	
				Sulfur	7704-39-9	0.03	0.00005	
				Iron	7439-89-6	98.69	0.15297	
		Zinc Plating	0.4050	Chromium	7440-47-3	0.01	0.0021	20.898
				Tin	7440-31-5	0.64	0.1337	
Zinc	7440-66-6			99.35	20.7622			
8	Housing	PBT	0.4800	Polybutylene terephthalate	30965-26-5	49	12.13632	24.768
				Glass fiber	65997-17-3	35	8.6688	
				Brominated flame retardant	Trade secret	10	2.4768	
				Antimony trioxide	1309-64-4	6	1.48608	
9	O-Ring	Silicon	0.0030	Silicon Rubber	63394-02-5	100	0.155	0.155
10	Rotor Shaft Molded	PBT	0.2390	Polybutylene terephthalate	30965-26-5	55	6.7826	12.332
				Glass fiber	65997-17-3	30	3.6996	
				Antimony trioxide	1309-64-4	4	0.49328	
				Brominated FR (TBBPA polycarbonate polymer)	trade secret	11	1.35652	
11	Nickel Strip	Nickel Alloy	0.0002	Nickel	7440-02-0	100	0.010	0.010
12	Nickel Silver Wire	Nickel Silver Alloy	0.0002	Copper	7440-50-8	55	0.0055	0.010
				Nickel	7440-02-0	18	0.0018	
				Zinc	7440-66-6	27	0.0027	
13	Laminated Back	Brass Alloy	0.0037	Copper	7440-50-8	70	0.1337	0.191

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	Up Strip			Zinc	7440-66-6	30	0.0573	
14	Lube	PTFE	0.0015	Polytetrafluoroethylene	9002-84-0	100	0.077	0.077
15	Lube	PTFE	0.0015	Polytetrafluoroethylene	9002-84-0	100	0.077	0.077
16	Epoxy	Epoxy	0.08	Epoxy resin	2386-87-0	65	2.6832	4.128
				Caprolacton, trimethylpropan polymer	37625-56-2	20	0.8256	
				Aluminum trioxide	1344-28-1	10	0.4128	
				Hydrophobic pyrogenic silica	112945-52-5	3.5	0.1445	
				Propylene carbonate	108-32-7	1.5	0.0619	
Total weight			1.938					

This Document was updated on: September 19, 2014

Important remarks:

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