

MATERIAL DECLARATION SHEET



Material Number	3310H		
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	7440-50-8	100	33.721	33.721
		Plating	0.018	Tin	7440-31-5	95	1.442	1.442
2	6 Up Substrate	Alumina	0.154	Alumina	1344-28-1	100	12.335	12.335
3	Termination Ink	Ink	0.0006	Silver	7440-22-0	68	0.033	0.043
				Bismuth trioxide	1304-76-3	4	0.002	
				Diethylene glycol monobutyl ether acetate	124-17-4	7	0.003	
				Terpineol	8006-39-1	10	0.005	
4	Resistive Ink	Ink	0.003	Diethylene Glycol Monobutyl Ether	112-34-5	35	0.084	0.24
				Graphite	7782-42-5	5	0.012	
				Carbon Black	1333-86-4	25	0.06	
				Ethylene Glycol Monobutyl Ether Acetate	112-07-2	5	0.012	
				Carbon	7440-44-0	2.5	0.006	
				Amorphous Silica	7631-86-9	2.5	0.006	
				Formaldehyde, Polymer with Xylene and Phenol	29661-89-0	25	0.06	

MATERIAL DECLARATION SHEET



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5	Resistive Ink	Ink	0.003	Graphite	7782-42-5	9	0.022	0.24
				Carbon Black	1333-86-4	9	0.022	
				Ethylene Glycol Monobutyl Ether Acetate	112-07-2	9	0.022	
				Silver	7440-22-4	35	0.084	
				Vinyl Resin		3	0.007	
				Diethylene Glycol Monobutyl Ether	112-34-5	35	0.084	
6	Substrate	Alumina	0.1217	Alumina	1344-28-1	100	9.748	9.748
7	Termination Ink	Ink	0.0006	Terpineol	8006-39-1	20	0.009	0.048
				Diethylene glycol monobutyl ether acetate	124-17-4	10	0.005	
				Lead Oxide	1317-36-8	2	0.001	
				Silver	7440-22-0	68	0.033	
8	Resistive Ink	Ink	0.003	Diethylene Glycol Monobutyl Ether	112-34-5	35	0.084	0.24
				Graphite	7782-42-5	5	0.012	
				Carbon Black	1333-86-4	25	0.06	
				Ethylene Glycol Monobutyl Ether Acetate	112-07-2	5	0.012	
				Carbon	7440-44-0	2.5	0.006	
				Amorphous Silica	7631-86-9	2.5	0.006	
				Formaldehyde, Polymer with Xylene and Phenol	29661-89-0	25	0.06	
9	Resistive Ink	Ink	0.003	Graphite	7782-42-5	9	0.022	0.24
				Carbon Black	1333-86-4	9	0.022	
				Ethylene Glycol Monobutyl Ether Acetate	112-07-2	9	0.022	
				Silver	7440-22-4	35	0.084	
				Vinyl Resin		3	0.007	
				Diethylene Glycol Monobutyl Ether	112-34-5	35	0.084	

MATERIAL DECLARATION SHEET



Reliable Electronic Solutions

10	Wire	Copper/ Silver Plated	0.077	Copper	7440-50-8	80	4.934	6.168
				Silver	7440-22-4	20	1.234	
11	Housing	PBT	0.0857	Glass	65997-17-3	20	1.373	6.933
				Antimony Oxide	1309-64-4	3	0.206	
				Poly butylene terephthalate	30965-26-5	74	5.148	
				Antimony Compounds	7440-36-0	3	0.206	
12	O-Ring	Silicon	0.0113	Silicon Rubber		100	0.906	0.906
13	Rotor Shaft Molded	PBT	0.2594	Glass	65997-17-3	20	4.156	20.985
				Antimony Oxide	1309-64-4	3	0.623	
				Poly butylene terephthalate	30965-26-5	74	15.583	
				Antimony Compounds	7440-36-0	3	0.623	
14	Nickel Strip	Nickel Alloy	0.00019	Nickel	7440-02-0	100	0.015	0.015
15	Nickel Silver Wire	Copper Alloy	0.0002	Copper	7440-50-8	55	0.009	0.016
				Nickel	7440-02-0	18	0.003	
				Zinc	7440-66-6	27	0.004	
16	Laminated Back Up Strip	Brass Alloy	0.00375	Copper	7440-50-8	70	0.21	0.3
				Zinc	7440-66-6	30	0.09	
17	Lube	PTFE	0.0015	Polytetrafluoroethylene	9002-84-0	100	0.12	0.12
18	Lube	PTFE	0.0015	Polytetrafluoroethylene	9002-84-0	100	0.12	0.12
19	Epoxy	Epoxy	0.08	Bisphenol A Diglycidyl Ether Resin	25068-38-6	50	3.204	7.049
				Silicon Dioxide	7440-21-3	20	1.282	
				Aluminum Silicate Hydroxide	1332-58-7	20	1.282	
				Antimony Trioxide	1309-64-4	20	1.282	

MATERIAL DECLARATION SHEET



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20	Catalyst	Catalyst	0.00004	Tetraethylenepentamine	112-57-2	65	0.002	0.003
				Triethylenetetramine	112-24-3	25	0.001	
				Pentaethylenehexamine	4067-16-7	10	0.003	
				Total weight	1.248			

This Document was updated on: January 27, 2006

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Product is available with a lead free terminal. Add L to part number as a suffix. Terminals will be 100% matte tin.
Standard part example: 3310H-001-102
RoHS compliant example: 3310H-001-102L