


# MATERIAL DECLARATION SHEET



Material Number	39			
Product Line	Panel Controls			
Compliance Date	March 31, 2005			
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	Housing	Polyphenylene Sulfide	0.434	Polyphenylene Sulfide	17870-96-6	100	12.129	12.129
2	Rotor	Polyhexamethylene Adipamide	0.083	Polyamide		100	2.319	2.319
3	Nickel Strip	Nickel Silver	0.007	Copper	7440-50-8	55	0.108	0.196
				Zinc	7440-66-6	27	0.053	
				Nickel	7440-02-0	18	0.035	
4	Wire	Nickel Silver	0.0075	Copper	7440-50-8	55	0.115	0.209
				Zinc	7440-66-6	27	0.057	
				Nickel	7440-02-0	18	0.038	
5	Strip Prepunched	Brass	0.029	Copper	7440-50-8	70	0.567	0.81
				Zinc	7440-66-6	30	0.243	
6	Substrate	Alumina	0.8	Alumina	1344-28-1	100	22.357	22.357
7	Termination Ink	Ink	0.002	Silver	7440-22-4	59	0.033	0.037
				Palladium	7440-05-3	24	0.013	
				Lead borosilicate Glass (less PbO)	65997-17-3	16	0.009	
				PbO	1317-36-8	1	0.006	
8	Resistive Ink	Ink	0.002	Phenolic Resin		67	0.037	0.056
				DAIP resin	1087-21-4	6	0.003	
				Carbon Black	1333-86-4	7	0.004	
				BaSO4	7727-43-7	16	0.009	
				Graphite	7782-42-5	4	0.002	

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9	Resistive Ink	Ink	0.002	Phenolic Resin		67	0.037	0.056
				DAIP resin	1087-21-4	6	0.003	
				Carbon Black	1333-86-4	7	0.004	
				BaSO4	7727-43-7	16	0.009	
				Graphite	7782-42-5	4	0.002	
10	Wire	Copper	0.0054	Copper	7440-50-8	100	0.151	0.151
		Plating	0.003	Tin	7440-31-5	100	0.084	0.084
11	Lube	Lubricating Grease	0.0084	Polysiloxane		100	0.235	0.235
12	Bushing	Zinc	1.15	Zinc	7440-22-4	95.746	30.771	32.138
				Aluminum	1344-28-1	4	1.286	
				Copper	7440-66-6	0.1	0.032	
				Magnesium	7439-98-5	0.04	0.013	
				Iron	7439-89-6	0.075	0.024	
				Lead	7439-92-1	0.004	0.001	
				Cadmium	7440-43-9	0.003	0.001	
				Tin	7440-31-5	0.032	0.01	
13	Stop Plate	Stainless Steel	0.045	Carbon	7440-44-0	0.15	0.002	1.258
				Manganese	7439-96-5	2	0.025	
				Silicon	7740-21-3	1	0.013	
				Chromium	7740-47-3	18	0.226	
				Nickel	7440-02-0	9	0.113	
				Iron	7439-89-6	69.7	0.877	
				Sulfur	7446-09-5	0.15	0.002	
14	O Ring	Rubber Blend	0.007	Rubber		100	0.196	0.196
15	Shaft	Brass	0.99	Copper	7440-50-8	61.5	17.015	27.667
				Lead	7439-92-1	3	0.83	
				Zinc	7440-66-6	35.5	9.822	

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16	Epoxy	Epoxy	0.0015	Bisphenol A Diglycidyl Ether Resin	25068-38-6	50	0.021	0.046
				Silicon Dioxide	7440-21-3	20	0.008	
				Aluminum Silicate Hydroxide	1332-58-7	20	0.008	
				Antimony Trioxide	1309-64-4	20	0.008	
17	Catalyst	Catalyst	0.0015	Tetraethylenepentamine	112-57-2	65	0.027	0.042
				Triethylenetetramine	112-24-3	25	0.011	
				Pentaethylenhexamine	4067-16-7	10	0.004	
		Total weight	3.578					

**This Document was updated on:** April 19, 2006

**Important remarks:**

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