


MATERIAL DECLARATION SHEET



Reliable Electronic Solutions

Material #	3315Y-L	
Product Line	Encoders	
Posted Date		
Compliance Date	Q4 / 2004	
RoHS Compliant	Yes	

No.	Construction element	Material group	Material weight [g]	Materials	CAS If applicable	Average mass [%]	Sum [%]
1	Copper Wire	Copper Alloy	0.439	Copper	7440-50-8	100%	21.5426%
2	Red Dielectric Ink	Ink	0.003	Diethyl Glycol Monbutyl Ether	65997-17-3	<60%	0.1472%
				Barium Sulfate	7727-43-7	<20%	
				Silicon Dioxide	7631-86-9	5%	
3	Substrate Cermet	Epoxy Composite Laminate	0.154	Antimony Trioxide	7440-22-4	1.30%	7.5571%
				Fibrous Glass Strand Mat	*****	20-25%	
				Copper	*****	17-20%	
				Epoxy Resin	026265-08-7	25-40%	
4	Termination Ink	Ink	0.0004	Lead Oxide	1317-36-8	<2%	0.0196%
				Silver	7440-22-0	40-60%	
				Barium Oxide	1304-28-5	<3%	
5	Hex Nut	Brass Alloy	0.3327	Copper	7440-50-8	70%	16.3262%
		Plating		Zinc	7440-66-6	30%	
				Nickel	7440-02-0	Coating	
6	Lock washer	Stainless Steel Alloy	0.1403	Carbon	7440-11-0	0.51%	6.8848%
				Manganese	7439-98-5	0.75%	
				Phosphorus	7723-14-0	0.02%	
				Sulfur	7704-39-9	0.025%	
				Iron	7439-89-6	98.695%	
		Zinc Plating	0.002975	Chromium	7440-47-3	0.1%	0.1460%
				Tin	7440-31-5	0.64%	
7	Housing	PBT	0.2733	Zinc	7440-66-6	99.25%	13.4114%
				Glass	65997-17-3	10-30%	
				PBT	*****	65-89%	
				Antimony Oxide	1309-64-4	1-5%	



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8	Bushing	PBT	0.2526	Glass	65997-17-3	10-30%	12.3956%
				PBT	*****	65-89%	
				Antimony Oxide	1309-64-4	1-5%	
9	O-Ring	Silicon Rubber	0.0113	Silicon	*****	100%	0.5545%
10	Rotor / Shaft	PBT	0.41	Glass	65997-17-3	10-30%	20.1195%
				PBT	*****	65-89%	
				Antimony Oxide	1309-64-4	1-5%	
11	Nickel Strip	Ni-Containing-Alloys	0.007	Copper	7440-50-8	51%	0.3435%
				Zinc	1314-13-2	27%	
				Manganese	7349-96-5	18%	
				Nickel	7440-02-0	4%	
12	Nickel Wire	Copper Alloy	0.0075	Copper	7440-50-8	55%	0.3680%
				Nickel	7440-02-0	18%	
				Zinc	7440-66-6	27%	
				Bismuth	7440-69-9	>.3%	
				Tin	7440-31-5	Remainder	
13	Laminated Back Up Strip	Brass Alloy	0.00375	Copper	7440-50-8	59-96%	0.1840%
				Zinc	7440-66-6	4-41%	
				Lead	7439-92-1	0.03-0.3%	
		Total weight	2.03783				