


# MATERIAL DECLARATION SHEET



Reliable Electronic Solutions

Model	EAW (FR4 Element Version)			
Product Line	Encoders			
Compliance Date	Septebmer 30, 2005			
RoHS Compliant	Yes	MSL	N/A	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material/ Substances	CAS if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. [%]	
1	Circuit Board	FR-4	2.4172	Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-,polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis(phenol)	26265-08-7	33	11.421	34.608	
				Copper	7440-50-8	18			6.295
				GF-Fibre	*****	49			16.958
		Copper Anode	0.0404	Copper	7440-50-8	100	0.578	0.578	
		Soldermask	0.0168	Bisphenol A, epichlorohydrin polymer	25068-38-6	40	0.096	0.241	
				(2-Methoxymethylethoxy)propanol	34590-94-8	10	0.024		
				Barium sulphate	7727-43-7	35	0.084		
				2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	10	0.024		
				Dipropylene glycol ethyl ether	15764-24-6	5	0.012		
		ENIG	0.0056	Nickel bis(sulphamidate)	13770-89-3	97	0.078	0.080	
Gold	7440-57-5			3	0.002				
2	Solder	Solder	0.005	Tin	7440-31-5	95	0.068	0.072	
				Silver	7440-22-4	5	0.004		



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3	Flux	Soldering Flux	0.0025	propan-2-01	67-63-0	75	0.027	0.036
				glycerol	56-81-5	15	0.005	
				2,2'-iminodiethanol	111-42-2	3	0.001	
				dimethylammonium chloride	506-59-2	3	0.001	
				lactic acid	50-21-5	3	0.001	
				glycollic acid	79-14-1	1	0.0004	
4	Terminal	Phosphor Bronze Alloy	0.412	Copper	7440-50-8	94.8	5.59	5.899
				Tin	7440-31-5	5	0.295	
				Phosphorus	7723-14-0	0.2	0.012	
		Plating	0.003	Nickel	7440-02-0	100	0.043	0.043
		Plating	0.0015	Tin	7440-31-5	100	0.022	0.022
5	Housing	PBT	2.283	Glass Fibers	65997-17-3	15	4.903	32.687
				Antimony Oxide	1309-64-4	3	0.981	
				Poly(butylene terephthalate)	30965-26-5	81.5	26.639	
				Carbon Black	1333-86-4	0.5	0.163	
6	Rotor	RTP	1.75	Polyamide	*****	100	25.056	25.056
7	Contact Spring	Nickel Silver Alloy	0.029	Copper	7440-50-8	70	0.291	0.415
				Nickel	7440-02-0	13	0.054	
				Lead	7439-92-1	2	0.008	
				Zinc	7440-66-6	15	0.062	
8	Lube	Lubricating Grease	0.0085	Polysiloxane	*****	100	0.122	0.122
9	O Ring	Silicon	0.01	Silicon Rubber	*****	100	0.143	0.143
		Total weight	6.985					

**This Document was updated on:** September 26, 2005

**Important remarks:**

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