


# MATERIAL DECLARATION SHEET



Material Number	CRH1206-LF			
Product Line	High resistance chip resistors			
Compliance Date	4-1-2003			
RoHS Compliant	Yes (Lead Exemption)	MSL	1	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [mg]	Homogeneous Material\ Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Ceramic	Substrate	8.5880	Aluminum oxide	1344-28-1	96	81.946	85.36
				Silicon dioxide	7631-86-9	4	3.414	
				Magnesium oxide	1309-48-4			
2	Top conductor	Silver	0.1620	Silver	7440-22-4	100	1.610	1.610
3	Bottom conductor	Silver	0.0543	Silver	7440-22-4	100	0.540	0.540
4	Resistor	Glass	0.1087	Glass	65997-18-4	50.7	0.548	1.080
				Lead oxide	1317-36-8	19.3	0.208	
				Ruthenium dioxide	12036-10-1	25	0.270	
				Resin	9004-57-3	5	0.054	

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5	First encapsulating	Epoxy	0.1038	Bismuth trioxide	1304-76-3	50	0.516	1.032
				Epoxy	25036-25-3	30	0.310	
				Aluminum oxide	1344-28-1	10	0.103	
				Boron oxide	1303-86-2	10	0.103	
6	Overcoat	Epoxy	0.2327	Epoxy	25036-25-3	100	2.313	2.313
7	Side conductor	Silver	0.2341	Silver	7440-22-4	85	1.978	2.327
				Resin	9003-36-5	15	0.349	
8	Plating (Middle)	Nickel	0.1985	Nickel	7440-02-0	100	1.973	1.973
9	Plating (Outer)	Tin	0.3573	Tin	7440-31-5	100	3.551	3.551
10	Marking	Epoxy	0.0215	Epoxy	25068-38-6	70	0.150	0.214
				Titanium dioxide	1317-80-2	30	0.064	
Total weight			10.0609					

**This Document was updated on: 11/23/2010**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS exemption 7(c)-I Electrical and electronic components containing lead in a glass or ceramic...