


MATERIAL DECLARATION SHEET



Material Number	CRH0603-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	1.8110	Aluminum oxide	1344-28-1	96	77.316	80.536
				Silicon dioxide	7631-86-9	4	3.220	
				Magnesium oxide	1309-48-4			
2	Top conductor	Silver	0.0464	Silver	7440-22-4	100	2.063	2.063
3	Bottom conductor	Silver	0.0201	Silver	7440-22-4	100	0.894	0.894
4	Resistor	Glass	0.0264	Glass	65997-18-4	52.3	0.614	1.174
				Lead oxide	1317-36-8	17.7	0.208	
				Ruthenium dioxide	12036-10-1	25	0.293	
				Resin	9004-57-3	5	0.059	

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5	First encapsulating	Epoxy	0.0252	Bismuth trioxide	1304-76-3	50	0.560	1.120
				Epoxy	25036-25-3	30	0.338	
				Aluminum oxide	1344-28-1	10	0.111	
				Boron oxide	1303-86-2	10	0.111	
6	Overcoat	Epoxy	0.0517	Epoxy	25036-25-3	100	2.299	2.299
7	Side conductor	Silver	0.1309	Silver	7440-22-4	85	4.949	5.821
				Resin	9003-36-5	15	0.872	
8	Plating (Middle)	Nickel	0.0525	Nickel	7440-02-0	100	2.335	2.335
9	Plating (Outer)	Tin	0.0782	Tin	7440-31-5	100	3.478	3.478
10	Marking	Epoxy	0.0063	Epoxy	25068-38-6	70	0.196	0.280
				Titanium dioxide	1317-80-2	30	0.084	
Total weight			2.2487					

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...