


MATERIAL DECLARATION SHEET



Material Number	CRT0603-AS Series			
Product Line	Thin Film Precision Chip Resistor			
Compliance Date	2015/09/17			
RoHS Compliant	Yes	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	Substrate	Ceramics 708S	1.7336	Aluminum oxide	1344-28-1	96	89.809	93.551
				Silicon dioxide	14808-60-7	3	2.806	
				Magnesium oxide	1309-48-4	1	0.936	
2	Backside Electrode	SR4350	0.0210	Silver	7440-22-4	85	0.963	1.133
				Copper	1317-38-0	15	0.17	
3	Primary Upside Electrode	SR4350	0.0210	Silver	7440-22-4	85	0.963	1.133
				Copper	1317-38-0	15	0.17	
4	Secondary Upside Electrode	DS-7260THM(T)	0.0210	Silver	7440-22-4	84.1	0.953	1.133
				Nickel	7440-02-0	2.4	0.027	
				Phenoxy resin	25068-38-6	6.1	0.069	
				Epoxy resin	29690-82-2	3.7	0.042	
5	Overcoat	OHMCOAT 1055B	0.0154	Resins	Trade secret	39.8	0.331	0.831
				Carbon Black	1333-86-4	3.4	0.028	
				Silicon dioxide	60676-86-0	22.7	0.188	
				Talc	14807-96-6	11.4	0.095	
				Additives	Trade secret	22.7	0.189	
6	Marking	1000 Series Epilite Ink Hardener	0.0100	Synthetic resin	Trade secret	80	0.432	0.54
				Titanium dioxide	13463-67-7	20	0.108	
7	Nickel Plating	Electrolytic Nickel	0.0052	Nickel	7440-02-0	100	0.281	0.281
8	Tin Plating	Pure tin Solder	0.0095	Tin	7440-31-5	100	0.513	0.513

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9	Edge Electrode	Conductor	0.0015	Nickel	7440-02-0	56	0.045	0.081
				Chromium	7440-47-3	44	0.036	
10	Resistor Layer	Conductor	0.0149	Nickel	7440-02-0	56	0.450	0.804
				Chromium	7440-47-3	44	0.354	
			Total weight	1.8531				

This Document was updated on: 2015/09/17

Important remarks:

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