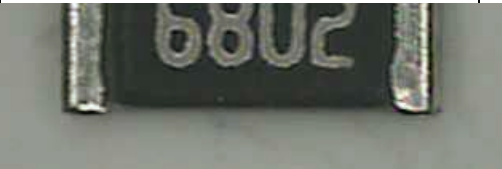


# MATERIAL DECLARATION SHEET

Material Number	CRS 1206			
Product Line	High power & anti-surge chip resistors			
Compliance Date	5-29-2013			
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	Silver Palladium	0.1087	Silver	7440-22-4	40	0.432	1.080
				Ruthenium dioxide	12036-10-1	20	0.216	
				Palladium	7440-05-3	15	0.162	
				Lead-containing Glass	7439-92-1	25	0.270	

# MATERIAL DECLARATION



5	First encapsulating	Resin	0.1038	Glass	65997-18-4	92	0.949	1.032
				Chromium oxide	1308-38-9	8	0.083	
6	Overcoat	Resin	0.2327	Resin	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	Resin	0.0215	Resin	25068-38-6	70	0.150	0.214
				Titanium oxide	1317-80-2	30	0.064	
Total weight			10.0609					

**This Document was updated on: 08/26/2019**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Lead exemption – 7c-l.