

MATERIAL DECLARATION SHEET

BOURNS®

Material Number	CRM2010		
Product Line	High power chip resistors		
Compliance Date			
RoHS Compliant	Yes (Lead Exemption)	MSL	N/A



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	21.4686	Aluminum oxide	1344-28-1	96	83.687	87.174	
				Silicon dioxide	7631-86-9	4	3.487		
				Magnesium oxide	1309-48-4				
2	Top conductor	Silver	0.3805	Silver	7440-22-4	100	1.545	1.545	
3	Bottom conductor	Silver	0.1948	Silver	7440-22-4	100	0.791	0.791	
4	Resistor	Ruthenium Oxide	0.2361	Silver	7440-22-4	40	0.383	0.959	
				Ruthenium dioxide	12036-10-1	20	0.192		
				Palladium	7440-05-3	15	0.144		
				Lead glass	7439-92-1	25	0.24		

MATERIAL DECLARATION

BOURNS®

5	First encapsulating	Resin	0.2277	Bismuth trioxide	1304-76-3	50	0.462	0.925
				Resin	25036-25-3	30	0.277	
				Aluminum oxide	1344-28-1	10	0.093	
				Boron glass	7440-42-8	10	0.093	
6	Overcoat	Epoxy	0.5224	Epoxy	25036-25-3	100	2.121	2.121
7	Side conductor	Silver	0.5031	Silver	7440-22-4	85	1.736	2.042
				Resin	9003-36-5	15	0.306	
8	Plating (Middle)	Nickel	0.4246	Nickel	7440-02-0	100	1.724	1.724
9	Plating (Outer)	Tin	0.6370	Tin	7440-31-5	100	2.587	2.587
10	Marking	Epoxy	0.0324	Epoxy	25068-38-6	70	0.092	0.132
				Titanium dioxide	1317-80-2	30	0.040	
		Total weight	24.6272					

This Document was updated on: 10/29/2010

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS exemption 7c-l - Lead in glass of ... electronic components.