MATERIAL DECLARATION SHEET



Material Number	CRM 1206-A	Α (> 1Ω)		
Product Line	High power c	1500		
Compliance Date	04/11/2017	1 300		
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	8.588	Aluminum oxide	1344-28-1	96	81.946	85.36
				Silicon dioxide	14808-60-7	2	3.414	
				Magnesium oxide	1309-48-4	2		
2	Top conductor	Silver	0.162	Silver	7440-22-4	100	1.61	1.61
3	Bottom conductor	Silver	0.0543	Silver	7440-22-4	100	0.54	0.54
4	Resistor	Ruthenium Oxide	0.1087	Silver	7440-22-4	40	0.432	1.08
				Ruthenium(IV) oxide	12036-10-1	20	0.216	
				Palladium	7440-05-3	15	0.162	
				Glass	65997-17-3	14.9	0.161	
				Lead-in-Glass	7439-92-1	10.1	0.109	

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				Silica	14808-60-7	74	0.763	
5	First encapsulating	Glass	0.1038	Glass	65997-17-3	12	0.124	1.032
				Aluminum oxide	1344-28-1	6	0.062	
				Chromium(III) oxide	1308-38-9	8	0.083	1
6	Overcoat	Resin	0.2327	Bisphenol (Epoxy Resin)	25036-25-3	100	2.313	2.313
				Silver	7440-22-4	85	1.978	
7	Side conductor	Silver	0.2341	Formaldehyde, polymer with (chloromethyl)oxir ane and phenol	9003-36-5	15	0.349	2.327
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	Epichlorohydrin, o-cresol, formaldehyde polymer	29690-82-2	70	0.15	0.214
				Pigment	1317-80-2	30	0.064	
		Total weight	10.0609					

This Document was updated on: 04/11/2017

Important remarks:

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

a. "Compliance Date" is not the date supplier submits the MDS, but when the product was first compliant with RoHS.

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- b. "This Document was updated on:" is where we indicate when supplier submits the MDS. All previous MDS must be archived for traceability in the future.
- c. Material weights for components less than 100mg (most Semiconductor products) should be listed in milligrams. This avoids all those zeros and round off issues.
- 2. RoHS exemption: 7(c)-1 Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.