


MATERIAL DECLARATION SHEET



Material Number	CG0402MLA, D, E Series			
Product Line	Varistor			
Compliance Date	2015/11/18			
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	Ceramic body	Main body	0.9659	Zinc oxide	1314-13-2	100	82.55	82.55
2		Sintering Flux in Metal Oxide Layer	0.0208	Glass (Na/Si/B)	65997-17-3	100	1.78	1.78
3		Internal Electrode	0.0879	Silver	7440-22-4	70	5.26	7.51
				Palladium	7440-5-3	30	2.25	
4		Overcoat	0.0032	Polymer	25068-38-6	100	0.27	0.27
5		Other additives in Metal Oxide Layer	0.0525	Bismuth oxide	1304-76-3	46.55	2.09	4.49
				Manganese oxide	1317-34-6	6.68	0.30	
				Nickel oxide	1313-99-1	20.05	0.90	
	Cobalt oxide			1308-06-1	8.91	0.40		
	Antimony oxide			1309-64-4	6.68	0.30		
	Chromium oxide	1308-38-9	11.13	0.50				
6	Terminations	Terminations	0.0292	Silver	7440-22-4	100	2.50	2.5
7	External electrode	External electrode	0.0042	Nickel	7440-02-0	100	0.36	0.36
			0.0063	Tin	7440-31-5	100	0.54	0.54
		Total weight	1.17					

This Document was updated on: **2015/11/18**

Important remarks:

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