


# MATERIAL DECLARATION SHEET



Material #	CG0603 MLA, MLD, MLE	
Product Line	Varistor	
Date	2011/8/17	
RoHS Compliant	Yes	

No.	Construction element	Material group	Material weight [g]	Materials	CAS if applicable	Average mass [%]	Sum [%]	Traces
1	Ceramic Body	Main body	0.0038638	Zinc oxide	1314-13-2	82.55	96.6	Pb
		Sintering Flux in Metal Oxide Layer	0.0000083	Lead oxide	1317-36-8	0.18		
			0.0000250	Silicon dioxide	7631-86-9	0.53		
			0.0000500	Boron oxide	1303-86-2	1.07		
			0.0002462	Silver	7440-22-4	5.26		
		Internal Electrode	0.0001055	Palladium	7440-5-3	2.25		
			0.0000126	Polymer	25068-38-6	0.27		
		Overcoat	0.0000978	Bismuth trioxide	1304-76-3	2.09		
			0.0000140	Manganese trioxide	1317-34-6	0.30		
			0.0000421	Nickel oxide	1313-99-1	0.90		
			0.0000187	Cobalt oxide	1308-06-1	0.40		
0.0000140	Antimony trioxide		1309-64-4	0.30				
Others additives in Metal Oxide Layer	0.0000234	Chromium oxide	1308-38-9	0.50				
2	End Termination	Terminations	0.0001170	Silver	7440-22-4	2.50	2.5	
3	External electrode	Terminations	0.0000168	Nickel	7440-02-0	0.36	0.9	
		External electrode	0.0000252	Tin	7440-31-5	0.54		
Total weight			0.0046805					

Standard Part Number Example: CG0603MLA-5.5ME

This ChipGuard ESD Protector series is RoHS compliant. Please see Chipguard COC for exemptions used.

Note: Avg. mass and sum data is a % of the component weight.

It is the responsibility of the user to ensure that the latest revision is being accessed on the website.