


MATERIAL DECLARATION



Product Part Number	CV Series	
Product Line	Medium voltage disk varistors	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material / Substances	CASRN if applicable	Material Mass [%]	Material Mass [%] of total unit wt.	Subpart mass of total wt. [%]
1	Ceramic body	Ceramic	2.080264	Zinc oxide	1314-13-2	88.8	60.8442	68.5349
				Bismuth trioxide	1304-76-3	5.0	3.4255	
				Antimony trioxide	1309-64-4	3.0	2.0565	
				Tricobalt tetraoxide	1308-06-1	1.2	0.8226	
				Manganese-oxide	1317-35-7	0.4	0.2738	
				Chromium III oxide	1308-38-9	0.8	0.5476	
				Nickel oxide	11099-02-8	0.8	0.5476	
				Aluminium nitrate	7784-27-2	0.0	0.0170	
2	Silver electrode	Silver	0.017463	Silver	7440-22-4	94	0.5408	0.5753
				Glass frit, lead containing	65997-18-4	6	0.0345	
3	Solder	Solder Sn78Bi20Ag2	0.0790	Tin	7440-31-5	77.823	2.0247	2.6017
				Bismuth	7440-69-9	20	0.5203	
				Silver	7440-22-4	2	0.0520	
				Antimony	7440-36-0	0.05	0.0013	
				Lead	7439-92-1	0.05	0.0013	
				Copper	7440-50-8	0.025	0.0007	
				Indium	7440-74-6	0.025	0.0007	
				Arsenic	7440-38-2	0.015	0.0004	
				Iron	7439-89-6	0.01	0.0003	
				Cadmium	7440-43-9	0.001	0.0000	
				Aluminium (metal)	7429-90-5	0.0005	0.0000	
Zinc (metal)	7440-66-6	0.0005	0.0000					

MATERIAL DECLARATION



4	Terminals	Tinned Cu-ETP1	0.4886	Copper	7440-50-8	99.4	16.0018	16.0984
				Tin	7440-31-5	0.6	0.0966	
5	Epoxy coating	Epoxy resin EF-150	0.3700	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-((1-methylethylidene)bis(4,1-phenyleneoxymethylene)) bis(oxirane)	25036-25-3	39.42	4.8051	12.1896
				Silica, vitreous	60676-86-0	27.21	3.3168	
				Formaldehyde, polymer with (chloromethyl)oxirane and phenol, reaction products with 6H-dibenz(c,e)(1,2)oxaphosphorin 6-oxide	300371-38-4	17.21	2.0978	
				Benzene-1,2:4,5-tetracarboxylic dianhydride	89-32-7	8.83	1.0763	
				Oxalic acid, copper(2+) salt (1:1)	814-91-5	7.33	0.8935	
		Total weight	3.0353					

This Document was updated on: January, 2021

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Presented data corresponds to part **CV275K14**. Weight may change depending on varistor value and dimension.