


MATERIAL DECLARATION



Product Part Number	CVQ Series	
Product Line	Extended 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	3.640657	Zinc oxide	1314-13-2	88.8	59.8119	67.3722
				Bismuth trioxide	1304-76-3	5.0	3.3674	
				Antimony trioxide	1309-64-4	3.0	2.0216	
				Tricobalt tetraoxide	1308-06-1	1.2	0.8087	
				Manganese-oxide	1317-35-7	0.4	0.2692	
				Chromium III oxide	1308-38-9	0.8	0.5383	
				Nickel oxide	11099-02-8	0.8	0.5383	
				Aluminium nitrate	7784-27-2	0.0	0.0167	
2	Silver electrode	Silver	0.041714	Silver	7440-22-4	97.5	0.7526	0.7719
				Glass frit, lead containing	65997-18-4	2.5	0.0193	
3	Solder	Solder Sn78Bi20Ag2	0.1439	Tin	7440-31-5	77.823	2.0730	2.6637
				Bismuth	7440-69-9	20	0.5327	
				Silver	7440-22-4	2	0.0533	
				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					

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4	Terminals	Tinned Cu-ETP1	0.7902	Copper	7440-50-8	99.4	14.5648	14.6233
				Tin	7440-31-5	0.6	0.0585	
5	Epoxy coating	Epoxy resin EF-150	0.7873	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-((1-methylethylidene)bis(4,1-phenyleneoxymethylene)) bis(oxirane)	25036-25-3	39.42	5.7431	14.5689
				Silica, vitreous	60676-86-0	27.21	3.9642	
				Formaldehyde, polymer with (chloromethyl)oxirane and phenol, reaction products with 6H-dibenz(c,e)(1,2)oxaphosphorin 6-oxide	300371-38-4	17.21	2.5073	
				Benzene-1,2:4,5-tetracarboxylic dianhydride	89-32-7	8.83	1.2864	
				Oxalic acid, copper(2+) salt (1:1)	814-91-5	7.33	1.0679	
		Total weight	5.4038					

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 **CVQ275K20**. Weight may change depending on varistor value and dimension.