


# MATERIAL DECLARATION



Product Part Number	<b>PV Series</b>	
Product Line	<b>Low &amp; medium voltage encapsulated varistors</b>	

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	0.306750	Zinc oxide	1314-13-2	88.8	20.0943	51.3131
				Bismuth trioxide	1304-76-3	5.0	1.1313	
				Antimony trioxide	1309-64-4	3.0	0.6792	
				Tricobalt tetraoxide	1308-06-1	1.2	0.2717	
				Manganese-oxide	1317-35-7	0.4	0.0904	
				Chromium III oxide	1308-38-9	0.8	0.1808	
				Nickel oxide	11099-02-8	0.8	0.1808	
2	Silver electrode	Silver	0.000612	Silver	7440-22-4	94	0.1530	0.1025
				Glass frit, lead containing	65997-18-4	6	0.0098	
3	Protective glass	Glass	0.0004	Diboron-trioxide	1303-86-2	38.5	0.0448	0.0732
				Zinc oxide	1314-13-2	38.5	0.0448	
				Diphosphorus-pentaoxide	1314-56-3	7.42	0.0086	
				Calcium-oxide	1305-78-8	7.42	0.0086	
				Copper-oxide	1317-38-0	7.42	0.0086	
4	Solder	Solder SAC	0.0033	Tin	7440-31-5	95.5	0.8462	0.5576
				Silver	7440-22-4	3.8	0.0337	
				Copper	7440-50-8	0.7	0.0062	

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5	Outer contacts	CuZn37 tinned	0.0857	Copper	7440-50-8	63	9.0281	14.3303
				Zinc (metal)	7440-66-6	36.6	5.2449	
				Nickel	7440-02-0	0.15	0.0215	
				Tin	7440-31-5	0.125	0.0179	
				Iron	7439-89-6	0.05	0.0072	
				Lead	7439-92-1	0.05	0.0072	
				Aluminium (metal)	7429-90-5	0.025	0.0036	
6	Molding compound	PPS-GF40	0.2010	Polyphenylene sulfide	26125-40-6	56.07	18.8526	33.6233
				Glass Fiber	65997-17-3	41.07	13.8091	
				Hydrozincite	12122-17-7	1.11	0.3732	
				Carbon black	1333-86-4	0.65	0.2186	
				Additives	-	1.1	0.3699	
		Total weight	0.5978					

**This Document was updated on:** December, 2020

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.
2. Presented data corresponds to part **PV300K3225**. Weight may change depending on varistor value and dimension.