

Varistor

Material Data Sheet

Product Class	Energy Varistor B722xxE*
Date	30.09.2019
IMDS ID if available	
Version	5.04

Product Part (IMDS: semi component)	Material Class (IMDS: Material)	Material (Classification) VDA 231	Substance	TMPS**) [wt%]	CAS if applicable	typical mass of material [wt-%]	Traces see 1)
Active Part	Ceramic	3B	ZnO Bi2O3 Sb2O3 Co3O4 NiO others*)	89 4,5 2,5 1 1 2	1314-13-2 1304-76-3 1309-64-4 1308-06-1 1313-99-1	98,9	
Termination	Light Metal	1B1	Al	100	7429-90-5	0,1	
Encapsulation	Glass	3A	PbO B2O3 SiO2 ZnO others*)	50 10 20 18 2	1317-36-8 1303-86-2 60676-86-0 1314-13-2	1	
	•	•	•	•	Sum in total:	100	•

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sizes [mm]	weight range [g]	material numbers	sizes [mm]	weight range [g]	material numbers	
32	50 – 250	B72232E*	70	90 - 950	B72270E*	
36	110 – 275	B72236E*	78	350 - 1150	B72278E*	
41/42	100 – 400	B72241E* / B72242E*	85	450 - 1200	B72285E*	
48	100 – 450	B72248E*	99	850 - 1850	B72299E*	
58	150 – 550	B72258E*	115	1170-1270	B72200E*	
64	150 – 700	B72264E*				

Not Part of a Product Class

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^{*)} others: .(not declarable or prohibited substances acc. GADSL)

Important remarks:

- The declaration limit is 0.1% as defined by IEC 62474 (IEC PAS 61906). Traces are product parts, substances etc. that are below a percentage of 0.1 % by weight, if not otherwise regulated.
- otherwise regulated.

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The products set forth herein are "RoHS-compatible". RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8th, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

RoHS - Exemptions for the Product Class / Product according to Annex III: (☑ valid ☐ not valid)

no	exemptions;

□ Exemption 6 (a): Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight;

☐ Exemption 6 (b): Lead as an alloying element in aluminium containing up to 0,4 % lead by weight;

☐ Exemption 6 (c): Copper alloy containing up to 4 % lead by weight;

☐ Exemption 7 (a): Lead in high melting temperature type solder (i.e. lead-based alloys containing 85 % by weight or more lead);

☑ Exemption 7 (c)-1: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound;

☐ Exemption 7 (c)-II: Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher;

☐ Exemption 7 (c)-III: Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC;

□ Exemption 15: Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages;

□ Other Exemption than above

^{**)} typical mass percentage of substance