

## Varistor

Product Class: Date		Disk Varistor S*T6 B72214S/P*V87 25.10.2024						
IMDS ID if available								
Version:		5.02						
Product Part (IMDS: semi component)	Materi (IMDS: N	al Class laterial)	Material (Classification) VDA 231	Substance	TMPS**) [wt%]	CAS if applicable	typical mass of material [wt-%]	Traces see 1)
Active Part	Ceramic		3В	ZnO Bi2O3 Sb2O3 Co3O4 NiO others*)	91 4,0 2,5 1 0,5 1	1314-13-2 1304-76-3 1309-64-4 1308-06-1 1313-99-1	8,7	
Termination	n Composite		4D	Cu or Ag Glass frit (boro-silicate)	95 5	7440-50-8 7440-22-4	0,1	
Solder	Heavy Metal		1C8	Sn Ag Cu	96,5 3 0,5	7440-31-5 7440-22-4 7440-50-8	0,9	
Leads	Heavy Metal		1A	Fe	100	7439-89-6	5,3	
	Heavy Metal		1C12	Cu	100	7440-50-8	0,9	
	Heavy Metal		1C8	Sn	100	7440-31-5	0,3	
Encapsulation	ation Duromer		2D Halogen-free coating	SiO2 Epoxy Pyromellitic dianhydride Phosphated epoxy others*)	46 40 6,5 5 2,5	60676-86-0 25036-25-3 89-32-7	3,0	
Insulating sheet	Compo	osite	4B	Mica Adhesive	80 20	12001-26-2	0,3	
Glue	Durom	er	2D	Epoxy resin Calcium carbonate Polyamide Titanium dioxide Cl compounds	42,5 25,5 21,2 10,6 0,2	61788-97-4 471-34-1 63428-84-2 13463-67-7	17,5	
Ceramic shell	Ceram	ic	3B	SiO2 MgO Al2O3 others*)	65,2 28,4 3,5 2,9	14808-60-7 1309-48-4 1344-28-1	63	

					Sum in total:	100	
sizes [mm] 18 x 19 x 9	weight range [ g ] 5.5 – 9.5	material numbers B72214S/P*V87					
Not Part of a Product Class							



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Contact	Mr. Christoph Ronner	Important remarks:				
Division	PPD Q QM	<ol> <li>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.</li> </ol>				
Address	8530 Deutschlandsberg, AUSTRIA					
	Tel: +43 3462 800 2139 mailto: TEG-EDB-EPQM@tdk.com	2) This Material Data Sheet contains typical values of the respective products set forth				
*) others: .(not of	declarable or prohibited substances acc. GADSL)	herein. We expressly point out that all values and statements contained herein are based on our best present knowledge and cannot be regarded as binding				
**) typical mass	percentage of substance	statements or binding product specifications, unless otherwise explicitly agreed i writing. TDK ELECTRONICS AG AND ITS AFFILIATES HEREBY EXPRESSLY DISCLAIM ANY REPRESENTATION OR WARRANTY, WHETHER EXPRESS, IMPLIED OR STATUTORY, WITH REGARD TO THE STATEMENTS AND VALUES CONTAINED HEREIN, INCLUDING BUT NOT LIMITED TO ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR SUITABILIT FOR ANY PURPOSE.				
		lucts are compatible with the requirements according to Art. 4 (substance restrictions) of striction of the use of certain hazardous substances in electrical and electronic equipment.				
RoHS - Exempt	tions for the Product Class / Product according to Annex III: ( $\square$ valid	not valid )				
<ul> <li>☑ no exemptions;</li> <li>□ Exemption 6 (a):</li> </ul>	Lead as an alloying element in steel for machining purposes and in galvanized steel con	taining 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):	6 (c): Copper alloy containing up to 4 % lead by weight;					
Exemption 7 (a):	ion 7 (a): Lead in high melting temperature type solder (i.e. lead-based alloys containing 85 % by weight or more lead);					
Exemption 7 (c)-I	xemption 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)-I	on 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 .....