

## **Varistor**

## **Material Data Sheet**

Product Class	Multilayer Varistor Array B72862F*, B727xxA* (suffix V9) 07.10.2019							
Date								
IMDS ID if available								
Version	5.05							
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 3 5 1 1	1314-13-2 1304-76-3 1309-64-4 1308-06-1 1313-99-1	91		
Inner Electrode	Noble Metal	1D7	Ag	70	7440-22-4	4		
Termination	Composite	4D	Pd Ag Glass frit (boro-silicate)	90 10	7440-05-3 7440-22-4	3.8		
	Heavy Metal	1C8	Sn	100	7440-31-5	0.7		
	Heavy Metal	1C14	Ni	100	7440-02-0	0.5		
					Sum of total	100		
sizes [ mm] 1.4 x 1.0 x 0.7 2.0 x 1.25 x 0.85 3.2 x 1.6 x 0.85	weight range [ g ] 0.003 - 0.005 0.008 - 0.012 0.018 - 0.022	material numbers B72862F* B72714A* B72724A*	part numbers CA04 CA05 CA06	0405 0508 0612				
Not part of a Product	Class							
Contact	Ronner Christoph Important remarks:							
Division	PPD Q QM			1) 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				
Address	8530 Deutschlandsberg	*		regulated.				
*) others: (not declara)	Tel: +43 3462 800 2139 ble or prohibited substan	mailto: functional.ppd-eqpm.db@t	dk-electronics.tdk.com	This Material Data Sheet contains typical values of the respective products set forth herein. We expressly point out that all values and statements contained herein are based on our contained herein.				
**) typical mass percen				specifications, un AFFILIATES HEF WHETHER EXPF AND VALUES CO	wledge and cannot be regarded less otherwise explicitly agreed REBY EXPRESSLY DISCLAIM RESS, IMPLIED OR STATUTO DNTAINED HEREIN, INCLUDIO ON OR WARRANTY OF MERC	d in writing." TDK ELECTR I ANY REPRESENTATION PRY, WITH REGARD TO T NG BUT NOT LIMITED TO	ONICS AG AND ITS I OR WARRANTY, HE STATEMENTS I ANY	
of the European Parlia	ment and of the Council	of June 8 <sup>th</sup> , 2011 on the	restriction of the use of certain	hazardous substance			Directive 2011/65/EU	
✓ no exemptions; □ Exemption 6 (a): L □ Exemption 6 (b): L □ Exemption 7 (a): L □ Exemption 7 (c)-I: E □ Exemption 7 (c)-II: L □ Exemption 7 (c)-III: L □ Exemption 15: L	ead as an alloying element in ead as an alloying element in copper alloy containing up to ead in high melting temperat lectrical and electronic comp ead in dielectric ceramic in c ead in dielectric ceramic in c	a steel for machining purpose a aluminium containing up to 4 % lead by weight; ure type solder (i.e. lead-bas onents containing lead in a gapacitors for a rated voltage apacitors for a rated voltage viable electrical connection to	nnex III: ( ☑ valid ☐ not valid 0,4 % lead by weight; ed alloys containing 85 % by weight plass or ceramic other than dielectric of 125 V AC or 250 V DC or higher; of less than 125 V AC or 250 V DC; between semiconductor die and carri	up to 0,35 % lead by wei or more lead); ceramic in capacitors, e.4	g. piezoelectronic devices, or in a gl	ass or ceramic matrix compour	nd;	