

PTC

## **Material Data Sheet**

Product Class	Switching Applications B593xxAxxxxP020						
Date	14.10.2019		]				
IMDS ID if available							
Version	5.03						
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	Ba-titanates Pb-titanates Sr-titanates Ca-titanates others*)	69 15 10 5	12047-27-7 12060-00-3 12060-59-2 12049-50-2	18.9	
Termination	Noble Metal	1D7	Ag	100	7440-22-4	0.045	
	Heavy Metal	1C14	Ni	100	7440-02-0	0.03	
	Heavy Metal	1C2	Cr	100	7440-47-3	0.025	
Contacts	Heavy Metal	1C12	Cu	100	7440-50-8	16.9	
	Heavy Metal	1C14	Ni	100	7440-02-0	1.7	
	Heavy Metal	1C8	Sn	100	7440-31-5	0.38	
	Noble Metal	1D7	Ag-plated	100	7440-22-4	0.02	
Encapsulation	Thermoplastic	2A	PBT GF(30) FR(17)	100	26062-94-2	62	
_					Sum of total	100	
<b>sizes [ mm]</b> 6 x 6 x 13	weight range [g] 0.42	material numbers B593xxAxxxxP020					
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			
Address	8530 Deutschlandsberg, AUSTRIA			product parts, substances etc. that are below a percentage of 0.1 % by weight, if not otherwise			
	Tel:	mailto:		regulated. 2) This Material Data Sheet contains typical values of the respective products set forth			
**) others: .(not declarable or prohibited substances acc. GADSL)  **) typical mass percentage of substance				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 statements or binding product specifications, unless otherwise explicitly agreed in writing. TDK ELECTRONICS AG AND ITS AFFILIATES HEREBY EXPRESSLY DISCLAIM ANY REPRESSENTATION 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 SUITABILITY FOR ANY PURPOSE.			
of the European Parlian	nent and of the Council of	of June 8 <sup>th</sup> , 2011 on the	tible means that products are cor restriction of the use of certain hand the correction of the use of certain hand the correction of the	mpatible with the require azardous substances i	• ,		Directive 2011/65/EU
□ Exemption 6 (b): Le     □ Exemption 6 (c): Co     □ Exemption 7 (a): Le     □ Exemption 7 (c)-l: Le     □ Exemption 7 (c)-ll: Le     □ Exemption 7 (c)-ll: Le     □ Exemption 15: Le	ead as an alloying element in opper alloy containing up to a lead in high melting temperatu ectrical and electronic comp lead in dielectric ceramic in ca lead in dielectric ceramic in ca	aluminium containing up to 1 % lead by weight; ure type solder (i.e. lead-bas onents containing lead in a g apacitors for a rated voltage apacitors for a rated voltage viable electrical connection b	es and in galvanized steel containing u 0,4 % lead by weight; ed alloys containing 85 % by weight o plass or ceramic other than dielectric or of 125 V AC or 250 V DC or higher; of less than 125 V AC or 250 V DC; between semiconductor die and carrier	r more lead); eramic in capacitors, e.g. p	niezoelectronic devices, or in a gla	ess or ceramic matrix compoun	id;