

## **PTC**

## **Material Data Sheet**

Product Class	s Sensors, Overcurrent Protection SMD B59xxxA*						
Date	15.01.2020						
IMDS ID if available							
Version	5.06		1				
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*)	67 12 10 10	12047-27-7 12060-00-3 12060-59-2 12049-50-2	97	
Termination	Heavy Metal	1C8	Sn	100	7440-31-5	1.89	
	Heavy Metal	1C14	Ni	100	7440-02-0	1.08	
	Heavy Metal	1C2	Cr	100	7440-47-3	0.03	
					Sum of total	100	
sizes [ mm] 1.6 x 0.8 x 0.9	weight range [g] 0.006	material numbers B59601A095* B59601A105*	EIA size 0603	sizes [ mm] 2.0 x 1.2 x 0.8	weight range [g] 0.011	material numbers B59701A140*	EIA size 0805
		B59604A085* B59604A090* B59623A090* B59641A095* B59641A105* B59641A115* B59641A125* B59641A135* B59641A145*				B59932A130*	
Not part of a Produc	t 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			product parts, substances etc. that are below a percentage of 0.1 % by weight, if not otherwise regulated.			
*) others: .(not declara **) typical mass perce	Tel: +43 3462 800 2139 able or prohibited substan ntage of substance	mailto: functional.ppd-eqpm.db@tces acc. GADSL)	dk-electronics.tdk.com	2) 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 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 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 SUITABILITY FOR ANY PURPOSE.			
			ible means that products are com	npatible with the requiren			of Directive 2011/65/EU
□ no exemptions; □ Exemption 6 (a): □ Exemption 6 (b): □ Exemption 7 (a): □ Exemption 7 (c)-II: □ Exemption 7 (c)-III: □ Exemption 15:	Lead as an alloying element in Lead as an alloying element in Copper alloy containing up to Lead in high melting temperat Electrical and electronic comp Lead in dielectric ceramic in c Lead in dielectric ceramic in c	n steel for machining purpose n aluminium containing up to 4 % lead by weight; ure type solder (i.e. lead-bass onents containing lead in a g apacitors for a rated voltage of apacitors for a rated voltage of viable electrical connection b	nex III: ( ☑ valid ☐ not valid  s and in galvanized steel containing up 0,4 % lead by weight;  ed alloys containing 85 % by weight or lass or ceramic other than dielectric ce of 125 V AC or 250 V DC or higher; of less than 125 V AC or 250 V DC; wetween semiconductor die and carrier	o to 0,35 % lead by weight; more lead); ramic in capacitors, e.g. piez	•	lass or ceramic matrix compo	ound;