

## **PTC**

## **Material Data Sheet**

Product Class	PTC Level Ser	nsors, housing					
	types B590x0D* 14.10.2019						
Date			]				
IMDS ID if available							
Version	5.04		1				
Product Part	Material Class	Material	Substance	TMPS**)	CAS	typical mass of	Traces
(IMDS: semi component)	(IMDS: Material)	(Classification) VDA 231		[wt%]	if applicable	material [wt-%]	see 1)
Active Part	Ceramic	3B	Ba-titanates	69	12047-27-7	1.065	
			Pb-titanates	15	12060-00-3		
			Sr-titanates	10	12060-59-2		
			Ca-titanates	5	12049-50-2		
			Dopants*)	1			
Termination	Noble Metal	1D7	Ag	100	7440-22-4	0.26	
	Heavy Metal	1C14	Ni	100	7440-02-0	0.13	
	Heavy Metal	1C2	Cr	100	7440-47-3	0.065	
Solder	Heavy Metal	1C15	Pb +)	97.5	7439-92-1	5.3	
			Sn	1	7440-31-5		
			Ag	1.5	7440-22-4		
Leads	Heavy Metal	1C14	Ni	97	7440-02-0	23.2	
			Ag	3	7440-22-4		
	Thermoplastic	2A	PTFE insulation	100	9002-84-0	17.1	
Housing	Iron & Steel incl. Alloys	1A	Stainless Steel X5CrNi18-10	100		39.08	
Potting compound	Duromer	2D	Epoxy Mica	65 30	12001-26-2	10.31	
			Silica others*)	2	14808-60-7		
	Organic, solid	4B	Silicone rubber	100		3.49	
			· ·	1	Sum of total	100	
sizes [mm] 2,8 x 2,8 x 82	weight range [g] 0,63	material numbers B59050D1*	<b>sizes [mm]</b> 2,8 x 2,8 x 63,5	weight range [ g ] 0,6	material numbers B59030D1*		
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	g, AUSTRIA		product parts, substances etc. that are below a percentage of 0.1 % by weight, if not otherwis regulated.			ght, if not otherwise
	Tel: mailto: +43 3462 800 2139 functional.ppd-eqpm.db@tdk-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			
**) typical mass percent	te list of Substances of \	ces acc. GADSL)  /ery High Concern acc. to	0	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.			
•		•	tible means that products are compa		• ,	,	ective 2011/65/EU of
the European Parliamer	nt and of the Council of	June 8 <sup>th</sup> , 2011 on the res	striction of the use of certain hazardo	ous substances in electri	cal and electronic equipme	ent.	
no exemptions; Exemption 6 (a): Le Exemption 6 (b): Le Exemption 6 (c): Co Exemption 7 (a): Le	ead as an alloying element i ead as an alloying element i opper alloy containing up to ead in high melting tempera	in steel for machining purpos in aluminium containing up to 4 % lead by weight; ture type solder (i.e. lead-bas	sed alloys containing 85 % by weight or r	nore lead);	polatrojis dovices, er in a glad	es a coromia matrix compound	d.
☐ Exemption 7 (c)-II: Le ☐ Exemption 7 (c)-III: Le ☐ Exemption 15: Le	ead in dielectric ceramic in dead in dielectric ceramic in de	capacitors for a rated voltage capacitors for a rated voltage viable electrical connection	glass or ceramic other than dielectric cen 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 w		•	ээ от останио ниших сотгроил	u,