

PTC Material Data Sheet

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Product Clas	PTC Limit Temperature Sensors, housing types B5905xD*, B59061D* 22.11.2021						
Date							
IMDS ID if available							
Version	5.07						
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 Dopants*)	69 15 10 5	12047-27-7 12060-00-3 12060-59-2 12049-50-2	8,4	
Termination	Heavy Metal Heavy Metal	1C14 1C2	Ni Cr	100	7440-02-0 7440-47-3	<0,001 <0,001	
Solder	Noble Metal Heavy Metal	1D7 1C15	Ag Pb+) Sn Ag	92,5 5 2,5	7440-22-4 7439-92-1 7440-31-5 7440-22-4	<0,001 3,1	
Leads	Iron & Steel incl. Alloys Heavy Metal Heavy Metal	1A 1C12 1C8	Fe Cu Sn	100 100 100	7439-89-6 7440-50-8 7440-31-5	21,7 6,3 1,2	
Casting	Organic, solid	4B	Thermosets	100		8,5	
Metal tag	Heavy Metal	1C12	Cu Zn	65 35	7440-50-8 7440-66-6	37	
	Heavy Metal	1C14	Ni	100	7440-02-0	0,7	
Housing	Organic, solid	4B	Thermoplastic Elastomer	100		13,1	
sizes [mm] 3 x 1 3 x 1	weight range [g] 0,5 0.5	material numbers B59051D1* B59053D1*	sizes [mm] 3 x 1	weight range [g] 0,5	Sum of total material numbers B59061D1*	100	
Not part of a Produ		Возосовт					
Contact	Ronner Christoph			Important remarks:			
Division	PPD Q QM			The declaration	n limit is 0.1% as defined b	y IEC 62474 (IEC PAS 619	906). Traces are
Address	8530 Deutschlandsberg, Al	USTRIA		product parts, substances etc. that are below a percentage of 0.1 % by weight, if not otherwise			
**) typical mass perc	Tel: +43 3462 800 2139 able or prohibited substances a centage of substance idate list of Substances of Ven 2006/EC		tdk-electronics.tdk.com	regulated. 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 or 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.			
the European Parlia	ment and of the Council of Jun	ne 8 th , 2011 on the restri	le means that products are comp ction of the use of certain hazard ex III: (☑ valid ☐ not valid)		• ,	,	ctive 2011/65/EU of
no exemptions; Exemption 6 (a): Exemption 6 (b): Exemption 6 (c): Exemption 7 (a): Exemption 7 (c)-II: Exemption 7 (c)-III: Exemption 7 (c)-IIIII	Lead as an alloying element in s Lead as an alloying element in a Copper alloy containing up to 4 f Lead in high melting temperature Electrical and electronic compor Lead in dielectric ceramic in cap I: Lead in dielectric ceramic in cap	teel for machining purposes sluminium containing up to 0 % lead by weight; e type solder (i.e. lead-base nents containing lead in a gli actitors for a rated voltage o actitors for a rated voltage o able electrical connection be	and in galvanized steel containing up 4 % lead by weight; d alloys containing 85 % by weight or ass or ceramic other than dielectric ce f 125 V AC or 250 V DC or higher;	more lead); eramic in capacitors, e.g. piez		ass or ceramic matrix compoun	nd;