

PTC

Material Data Sheet

Product Class	PTC Inrush current limiter B594xxU1* / B5975xU*
Date	22.03.2021
IMDS ID if available	
Version	5.14

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	69	12047-27-7	78,33	
			Pb-titanates	15	12060-00-3		
			Sr-titanates	10	12060-59-2		
			Ca-titanates others*)	5 1	12049-50-2		
Termination	Noble Metal	1D7	Ag or Cu	100 100	7440-22-4 7440-50-8	0,018	
	Heavy Metal	1C14	Ni	100	7440-02-0	0,006	
	Heavy Metal	1C2	Cr	100	7440-47-3	0,006	
Solder	Heavy Metal	1C15	Pb +)	92	7439-92-1	1,07	
			Sn	5	7440-31-5		
			Ag	3	7440-22-4		
Leads	Iron & Steel incl.	1A	Fe	100	7439-89-6	6,97	
	Heavy Metal	1C12	Cu	100	7440-50-8	3,88	
	Heavy Metal	1C8	Sn	100	7440-31-5	0,39	
Coating	Organic, solid	4B1	Silicone Lacquer	100		5,5	
Shrink tube	Organic, solid	2A	Ethylene-vinyl acetate copolymer	30	24937-78-8	3,83	
			polyethylene	20	9002-88-4		
			Magnesium Hydroxide	25	1309-42-8		
			Phosphorus	10	7723-14-0		
			Silicate	10	1327-36-2		
			C73H108O12	2	6683-19-8		
			others *)	3			
Sum of total						100	

sizes [mm]	weight range [g]	material numbers	sizes [mm]	weight range [g]	material numbers
17 x 9	5,3	B59412U1130B*	13 x 6	3,8	B59751U0120A040
17 x 9	5,2	B59441U1130A0xx	14 x 8,5	3,8	B59753U0120B110
17 x 9	5,2	B59451U1130*			
17 x 9	5,6	B59452U1135A*			
Not part of a Product Class					

Product Class	PTC Inrush current limiter B594xxU1* / B5975xU*
Date	22.03.2021
IMDS ID if available	
Version	5.14

Contact	Ronner Christoph	Important remarks: 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 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 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.
Division	PPD Q QM	
Address	8530 Deutschlandsberg, AUSTRIA	
	Tel: +43 3462 800 2139 mailto: functional.ppd-epqm.db@tdk-electronics.tdk.com	
*) others: not declarable or prohibited substances acc. GADSL **) typical mass percentage of substance +) listed in the Candidate list of Substances of Very High Concern acc. to Regulation 1907/2006/EC		

The products set forth herein are "RoHS-compatible". RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8th, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

RoHS - Exemptions for the Product Class / Product according to Annex III: (valid not valid)

- no exemptions;**
- Exemption 6 (a): Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight;
- Exemption 6 (b): Lead as an alloying element in aluminium containing up to 0,4 % lead by weight;
- Exemption 6 (c): Copper alloy containing up to 4 % lead by weight;
- Exemption 7 (a): Lead in high melting temperature type solder (i.e. lead-based alloys containing 85 % by weight or more lead);
- Exemption 7 (c)-I: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound;
- Exemption 7 (c)-II: Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher;
- Exemption 7 (c)-III: Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC;
- Exemption 15: Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages;
- Other Exemption than above