

**PTC Material Data Sheet** 

Product Class	Overcurrent Protection B59xxxB/U* 10.12.2020							
Date								
IMDS ID if available								
Version	5.05							
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	83,7		
Termination Solder	Noble Metal	1CD7	Ag	100	7440-22-4	0,008		
	Heavy Metal	1C14	Ni	100	7440-02-0	0,006		
	Heavy Metal Heavy Metal	1C2 1C15	Cr Pb +)	93	7440-47-3 7439-92-1	0,006 1,6		
Solder	neavy Wetai	1015	Sn Ag	93 5 2	7440-31-5 7440-22-4	1,0		
Leads	Iron & Steel incl.	1A	Fe	100	7439-89-6	13,7		
	Allovs Heavy Metal	1C12	Cu	100	7440-50-8	0,68		
	Heavy Metal	1C8	Sn	100	7440-31-5	0,3		
					Sum of total	100		
6 x 4 6 x 4 5.2 x 3.2 5.2 x 3.2 6.6 x 3.4 3 x 2.5 12.7 x 5.7	0,544 0,544 0,38 0,38 0,56 0,346 1,87	B59012B1080A* B59012B1080B* B59069B1120A* B59076B1120B151 B59076B1120B153 B59121B1120A* B59310B1110A*		12 x 3 12 x 5 12 x 5 12 x 5 12 x 5 12 x 5 12 x 5 8 x 5 12 x 2,5 8 x 2,5 5 x 1	2.6 3,5 3,5 3,5 3,5 3,5 1,7 1,9 0,95 0.362	B59750B* B59751B* B59752B* B59753B* B59754B* B59755B* B59758B* B5977xB* B59850B120* B59870B080* B59985B120*		
Not part of a Product	Class			3 X 1	0,302	B39903B120		
Contact	Ronner Christoph	•		Important remarks	);			
Division	PPD Q QM			1' 1''1'- 0 40/ d-Cd	L. 150 00474 (150 DAO 04	(00C) Table		
Address		Deutschlandsberg, AUSTRIA			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.			
**) typical mass percent	+43 3462 800 2139 le or prohibited substandage of substance list of Substances of \	functional.ppd-epqm.db@		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				
of the European Parlian	nent and of the Council of	of June 8 <sup>th</sup> , 2011 on the	restriction of the use of cer	tain hazardous substances	uirements according to Art. 4 in electrical and electronic e	•	f Directive 2011/65/EU	
no exemptions; Exemption 6 (a): Le Exemption 6 (b): Le Exemption 6 (c): Ca Exemption 7 (a): Le Exemption 7 (c)-I: El Exemption 7 (c)-II: Le Exemption 7 (c)-III: Le Exemption 15: Le	ead as an alloying element ead as an alloying element opper alloy containing up to ead in high melting tempera ectrical and electronic com ead in dielectric ceramic in ead in dielectric ceramic in	in steel for machining purpo in aluminium containing up of 4 % lead by weight; ture type solder (i.e. lead-by ponents containing lead in a capacitors for a rated voltag capacitors for a rated voltag i viable electrical connection	ased alloys containing 85 % by	weight or more lead); electric ceramic in capacitors, eligher; V DC;	e.g. piezoelectronic devices, or i	n a glass or ceramic matrix co	mpound;	