

PTC Material Data Sheet

Product Class	Heating eleme B59xxxA/F/R*						
Date	28.09.2021		1				
IMDS ID if available							
Version	5.23						
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	BaTiO3	69	12047-27-7	98,5	
			PbTiO3	15	12060-00-3		
			SrTiO3	10	12060-59-2		
			CaTiO3	5	12049-50-2		
			others*)	1	12043-30-2		
Termination	Composito	4D	Al	90,6	7429-90-5	1,5	
rermination	Composite	40	Lead-Boro-Silicate	9,4	7429-90-5	1,5	
			Lead-Boro-Silicate	9,4			
					Sum of total	100	
sizes [mm]	weight range [g]	material numbers	sizes [mm]	weight range [g]	material numbers		
12 x 2	1.2	B59066A*	35.4 x 6.2 x 1.4	1.7	B59140R*		
40 x 12 x 1.8	5.18	B59039D7201U010		1.2	B59141R*		
8.6 x 1.0	0.34	B59086F0150B010	36.6 x 6.8 x 0.9	1.3	B59143R0170B*		
16 x 1.5	1.81	B59351F0180B010	35 x 6,2 x 1,8	2,23	B59145R*		
16 x 1.5	1.81	B59351F0125B010		2,85	B59183R*		
35 x 4 x 1.62	1.27	B59004R0120B110		2,47	B59193R*		
35.0 x 6.2 x 2.0	2.47	B59045R*	17,3 x 6,2 x2	1,22	B59196R*		
17,5 x 6,2 x 1,1	0,72	B59077R0115B010		1.27	B59272R0050B010		
35 x 6,2 x 2	2,47	B59102R*	30.8 x 39.2 x 1.9	12.8	B59280R*		
35 x 6,2 x 2	2,47	B59103R*	28.8 x 9.8 x 2.1	3.5	B59288R*		
36.2 x 5.7 x 1.8	2.2	B59105R0090B010		3.5	B59290R*		
17,3 x 6,2 x2	1,22	B59106R*	28.8 x 9.8 x 2.1	3.5	B59297Rx160B010		
11,6 x 6,2 x 2	0,82	B59107R*	28.8 x 6.2 x 1.42	1,4	B59326R*		
35 x 6,2 x 2	2,45	B59109R*	28.8 x 6.2 x 1.42	1.4	B59335R*		
35 x 6,2 x 1,4	1,73	B59115R*	35.4 x 14.5 x 2.1	6.27	B59356R0180B010		
17,3 x 6,2 x1,4	0,86	B59116R*	35.4 x 14.5 x 2.1	6.03	B59356R0195B010		
11,6 x 6,2 x 1,4	0,57	B59117R*	14.5 x 14.5 x 1.4	1.57	B59390R0070B10V3		
17,3 x 6,2 x 2,2	1,35	B59126R*	27.3 x 13 x 1.1	2.2	B59401R0140B010		
11,6 x 6,2 x 3,2	1,31	B59127R*	27.4 x13 x 1.1	2.13	B59423R0140B110		
JE / V 1 / E V 1 1	3.13	B59136R0135B010	28.8 x 9.8 x 1.1	1.8	B59430R0160B110		
35.4 x 14.5 x 1.1 35.4 x 6.2 x 1.42	1.75	B59139R0165B010	10 10 10	5.18	B59432R0050B010		



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Product Class	Heating elements B59xxxA/F/R* (AI)							
Date	28.09.2021							
IMDS ID if available								
Version	5.23							
Contact	Ronner Christoph Important remarks:							
Division	PPD Q QM		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					
Address	8530 Deutschlandsberg, AUSTRIA							
*) others: not declarab **) typical mass perce	Tel: mailto: functional.ppd-epqm.db@td le or prohibited substances acc. GADSL ntage of substance	k-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 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					
			natible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of lous substances in electrical and electronic equipment.					
RoHS - Exemptions for the Product Class / Product according to Annex III: (☑ valid □ not valid)								
Description 6 (a): Exemption 6 (b): Exemption 6 (c): Exemption 7 (c)-II: Exemption 7 (c)-III: Exemption 7 (c)-III: Exemption 7 (c)-III: Exemption 7 (c)-III: Exemption 1 (c)-IIII: Exemption 1 (c)-IIIII: Exemption 1 (c)-IIIII: Exemption 1 (c)-IIIII: Exemption 1 (c)-IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII								