

## Piezo Material Data Sheet

Product Class	Piezo Pressure Sensor B59995* B59045* 07.02.2022							
Date								
IMDS ID if available								
Version	5.06							
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	Pb(Ti, Zr)O3 +)	98	12626-81-2	99,6		
Ti4i	Nahla Matal	407	others*)	100	7440-22-4	0.4		
Termination	Noble Metal	1D7	Ag	100	Sum of total	0,4 100		
**) typical mass percei +) listed in the Candida Regulation 1907/200  The products set for	Ronner Christoph PPD Q QM 8530 Deutschlandsber Tel: +43 3462 800 2139 le or prohibited substance ntage of substance ate list of Substances of \ 06/EC	g, AUSTRIA mailto: functional.ppd-epqm.db( es acc. GADSL  /ery High Concern acc.	@tdk-electronics.tdk.com to	1) The declar product parts, suregulated. 2) This Matherein. We expressed best present knot specifications, ur AFFILIATES HE WHETHER EXPAND VALUES CREPRESENTAT PURPOSE.	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			
RoHS - Exemptions f no exemptions; Exemption 6 (a): Exemption 6 (b): Exemption 7 (a): Exemption 7 (c)-I: Exemption 7 (c)-II: Exemption 7 (c)-III: Exemption 15:	For the Product Class / If Lead as an alloying element Lead as an alloying element Copper alloy containing up t Lead in high melting temper Electrical and electronic con Lead in dielectric ceramic in Lead in dielectric ceramic in	Product according to A t in steel for machining purp t in aluminium containing up o 4 % lead by weight; ature type solder (i.e. lead- nponents containing lead in capacitors for a rated volta capacitors for a rated volta a viable electrical connection	nnex III: ( ☑ valid ☐ not oses and in galvanized steel or to 0.4 % lead by weight; based alloys containing 85 % b	t valid ) ontaining up to 0,35 % lead by y weight or more lead); dielectric ceramic in capacitors r higher; 0 V DC;	s, e.g. piezoelectronic devices, or in		pound;	