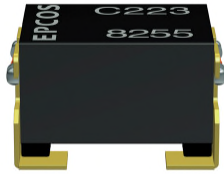
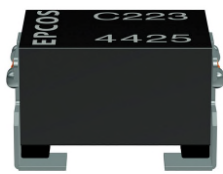


# Chokes for Data and Signal Lines

# Material Data Sheet

<b>Product Class:</b>	SMD Choke SIMDAD 1812 B82789*****		
<b>Date</b>	23.07.2015		
IMDS ID if available			
<b>Version:</b>	11		

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)
<b>Active Part</b>	Ceramic	4B	Nickel Zinc Ferrite	100	12645-50-0	83.4	
	Heavy Metal	1C	Cu	100	7440-50-8	8.5	
	Elastomer	2C	Polyurethane (PUR)	100	68400-67-9	0.4	
<b>Encapsulation and Mounting</b>	Duromer	2C	Epoxy (EP)	100	25068-38-6	3.3	
<b>Termination</b>	Heavy Metal	1C	Cu	94	7440-50-8	4.2	
		1C	Sn	6	7440-31-5		
	Heavy Metal	1C	Ni	100	7440-02-0		x
	Heavy Metal	1C	Ag	100	7440-22-4		x
	Heavy Metal	1C	Sn for B82789*****002 and *****H052	100	7440-31-5	0.2	
	Noble Metal	1D	Au for B82789*****001	100	7440-57-5	0.1	
Sn for B82789*****001			100	7440-31-5	0.1		
<b>Sum in total:</b>						100.0	

Size W x L x H [max. in mm]	Weight [approx. in g]	Part Numbers
3,2 x 4,5 x 3,0	0,15	B82789*****00* B82789*****H052

Not part of a Product Class : ---

<b>Contact</b>	Dr. Johann Reindl, MAG EPQM	<b>Important remarks:</b> 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.
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*) others: (not declarable or prohibited substances acc. GADSL)		
**) typical mass percentage of substance		

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 8<sup>th</sup>, 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 .....