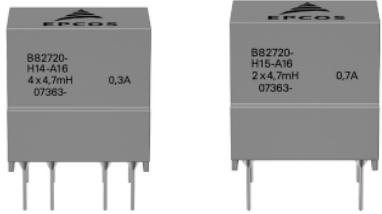


# Chokes for Data Lines

# Material Data Sheet

<b>Product Class:</b>	<b>Ring Core Double Choke B82720H**1*B***</b>	
<b>Date</b>	<b>16.01.2020</b>	
IMDS ID if available		
<b>Version:</b>	<b>01</b>	

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	Manganese Zinc Ferrite	100	12645-49-7	34.0	
	Duromer	2C	Epoxy	100	25928-94-3	1.7	
	Heavy Metal	1C	Cu	100	7440-50-8	15.6	
	Elastomer	2B	Polyurethane (PUR)	100	9009-54-5	1.0	
<b>Encapsulation and Mounting</b>	Thermoplastic	2A	Liquid crystal polymer (LCP)	60	90967-43-4	24.8	
			Glass fiber	40	65997-17-3		
	Organic, solid	5B	Polydimethylsiloxane (MQ)	100	63148-62-9	20.0	
	Heavy Metal	1C	Sn	100	7440-31-5	0.2	
<b>Termination</b>	Heavy Metal	1C	Cu	62	7440-50-8	2.6	
			Ni	18	7440-02-0		
			Zn	20	7440-66-6		
	Heavy Metal	1C	Ni	100	7439-89-6		x
Heavy Metal	1C	Sn	100	7440-31-5	0.1		
<b>Sum in total:</b>						<b>100.0</b>	

Size W x L x H [max. in mm]	Weight [approx. in g]	Part Numbers
9,5 x 13,3 x 14,3	2.8	B82720H0015B***

<b>Not part of a Product Class</b>		
<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.

<b>RoHS - Exemptions for the Product Class / Product according to Annex III:</b> ( <input checked="" type="checkbox"/> valid <input type="checkbox"/> not valid )	
<input checked="" type="checkbox"/> no exemptions;	
<input type="checkbox"/> 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;
<input type="checkbox"/> Exemption 6 (b):	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight;
<input type="checkbox"/> Exemption 6 (c):	Copper alloy containing up to 4 % lead by weight;
<input type="checkbox"/> Exemption 7 (a):	Lead in high melting temperature type solder (i.e. lead-based alloys containing 85 % by weight or more lead);
<input type="checkbox"/> 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;
<input type="checkbox"/> Exemption 7 (c)-II:	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher;
<input type="checkbox"/> Exemption 7 (c)-III:	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC;
<input type="checkbox"/> Exemption 15:	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages;
<input type="checkbox"/> Other Exemption than above	.....