



Inductor

Material Data Sheet

Product Class	SMD RING CORE CHOKE B82722SxxxxAxxx		
Date	22.07.2021		
IMDS ID if available			
Version	03		

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	4B	Manganese Zinc Ferrite	100	1264549-7	60.0	
	Duromer	2C	Epoxy (EP)	100	25068-38-6	3.0	
	Heavy Metal	1C	Cu	100	7440-50-8	7.0	
	Duromer	2C	PUR	100	9009-54-5	0.1	
Encapsulation	Thermoplastic	2A	Phenolic	35-50	9003-35-4	23.0	
			Glass fiber	50-65	65997-17-3		
	Organic, solid	5B	Polydimethylsiloxane (MQ)	100	25068-38-6	4.4	
Termination	Heavy Metal	1C	Cu	100	7440-50-8	1.7	
			Sn	96.5	7440-31-5	0.8	
	Heavy Metal	1C	Ag	3.0	7440-22-4		
			Cu	0.5	7440-50-8		
Sum in total:						100	

Size W x L x H [max. in mm]	Weight [approx. in g]	Part Numbers	Size W x L x H [max. in mm]	Weight [approx. in g]	Part Numbers
31.0x25.4x12.7	14.6	B82722S0193A041;P301573	31.0x25.4x12.7	15.7	B78520A9617A003
31.0x25.4x12.7	13.3	B82722S0322A040;P301302	31.0x25.4x12.7	17.0	B78520A8471A003
31.0x25.4x12.7	14.7	B82722S0862A020;P301301	31.0x25.4x12.7	16.1	B78520A9646A003
31.0x25.4x12.7	15.7	B82722S0103A020;P301300	31.0x25.4x12.7	15.7	B78520A9616A003
31.0x25.4x12.7	16.1	B82722S0133A020;P301299	31.0x25.4x12.7	14.7	B78520A9343A003
31.0x25.4x12.7	15.7	B82722S0193A040;P301298	31.0x25.4x12.7	13.3	B78520A8888A003

Not part of a Product Class

Contact	Dr. Johann Reindl, MAG EPQM	Important remarks: 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 th , 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. piezoelectric 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