


Inductor

Material Data Sheet

Product Class	SMD Inductor B82477DxxxxM900	
Date	01.03.2021	
IMDS ID if available		
Version	01	

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	Ceramics	4B	Ferrite Ni-Zn	100	12645-50-0	71.5	
	Heavy Metal	1C	Cu	100	7440-50-8	18.3	
	Elastomer	2B	Polyurethane (PUR)	100	9009-54-5	1.0	
Encapsulation	Thermoplastic	2A	Liquid crystal polymer (LCP)	60	90967-43-4	5.7	
			Glass fiber	40	65997-17-3		
	Duromer	2C	Epoxy resin(EP)	100	25928-94-3	1.0	
	Organic, solid	5B	Quartz	30-50	14808-60-7	1.3	
			Dimethylvinylated and trimethylated silica	15-35	68988-89-6		
			Dimethyl siloxane, dimethylvinyl-terminated (VMQ)	40-60	68988-89-6		
	Organic, solid	5B	Dimethylhydropolysiloxane	63	68037-59-2	0.4	
Quartz			37	14808-60-7			
Termination	Heavy Metal	1C	Cu	94	7440-50-8	0.7	
			Sn	6	7440-31-5		
	Heavy Metal	1C	Ni	100	7440-02-0		x
	Heavy Metal	1C	Sn	100	7440-31-5	0.1	
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
12.5x12.5x8.5	3.8	B82477D4223M900	12.5x12.5x8.5	3.8	B82477D4103M900
12.5x12.5x8.5	3.8	B82477D4473M900	12.5x12.5x8.5	3.8	B82477D4104M900
12.5x12.5x8.5	3.8	B82477D4202M900	12.5x12.5x8.5	3.8	B82477D4333M900
12.5x12.5x8.5	3.8	B82477D4153M900	12.5x12.5x8.5	3.8	B82477D4683M900
12.5x12.5x8.5	3.8	B82477D4302M900	12.5x12.5x8.5	3.8	B82477D4682M900
12.5x12.5x8.5	3.8	B82477D4472M900			

Not part of a Product Class

Contact	Dr. Johann Reindl, MAG EPQM	Important remarks:
Division	TDK Electronics AG, Magnetics Business Group (MAG)	
Address	Rosenheimer Strasse 116b, 81669 Munich	
	Tel: +49 89 54020 3030 mailto: johann.reindl@tdk-electronics.tdk.com	
*) others: (not declarable or prohibited substances acc. GADSL)		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.
**) 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