

Inductor

Material Data Sheet

Product Class	SMD Inductor B82477DxxxxMxxx
Date	01.03.2021
IMDS ID if available	
Version	04



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	71.3		
	Heavy Metal	1C	Cu	100	7440-50-8	18.1		
	Elastomer	2B	Polyurethane (PUR)	100	9009-54-5	0.9		
Encapsulation	Thermoplastic	24	Liquid crystal polymer (LCP)	60	90967-43-4	5.6		
		moplastic 2A	Glass fiber	40	65997-17-3	5.0		
	Duromer	2C	Polyimide(PI)	100	26298-81-7	0.3		
	Duromer	2C	Acrylic polymer	100	9017-68-9	0.2		
	Duromer	2C	Epoxy resin(EP)	100	25928-94-3	1.0		
	Organic, solid	Organic, solid 5B	Quartz	30-50	14808-60-7			
			Dimethylvinylated and trimethylated silica	15-35	68988-89-6	1.2		
			Dimethyl siloxane, dimethylvinyl-terminated (VMQ)	40-60	68988-89-6			
	Organic, solid	Organic, solid 5B	5D	Dimethylhydropolysiloxane	63	68037-59-2	0.4	
			36	Quartz	37	14808-60-7	0.4	
	Heavy Metal	1C	Sn	100	7440-31-5	0.3		
Termination	Heavy Metal	eavy Metal 1C	Cu	94	7440-50-8	0.0		
			Sn	6	7440-31-5	0.6		
	Heavy Metal	1C	Ni	100	7440-02-0		Х	
	Heavy Metal	1C	Sn	100	7440-31-5	0.1		
				*	Sum in total:	100	•	

Size W x L x H	Weight	Part Numbers	Size W x L x H	Weight	Part Numbers
[max. in mm]	[approx. in g]		[max. in mm]	[approx. in g]	
12.5x12.5x8.5	3.8	B82477D4333M300	12.5x12.5x6.5	3.8	B82477D2223M
12.5x12.5x8.5	3.8	B82477D4223M	12.5x12.5x8.5	3.8	B82477D4103M
12.5x12.5x8.5	3.8	B82477D4473M	12.5x12.5x8.5	3.8	B82477D4104M
12.5x12.5x8.5	3.8	B82477D4202M	12.5x12.5x8.5	3.8	B82477D4333M
12.5x12.5x8.5	3.8	B82477D4153M	12.5x12.5x8.5	3.8	B82477D4683M
12.5x12.5x8.5	3.8	B82477D4302M	12.5x12.5x8.5	3.8	B82477D4472M
12.5x12.5x8.5	3.8	B82477D4682M			

Not part of a Product Class

Contact	Dr. Johann Reindl, MAG EPQM		
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)

Important remarks:

- 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.
- 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.

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 8th, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

^{**)} typical mass percentage of substance



###