

# Inductor

# **Material Data Sheet**

Product Class	SMD Inductor B82477E6xxxxxxx
Date	20.08.2021
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	Ceramic	4B	Manganese Zinc Ferrite	100	12645-49-7	29.3	
	Duromer	2C	Epoxy resin (EP)	100	25068-38-6	1.6	
	Ceramic	1C	Ferrite Ni-Zn	100	12645-50-0	34.1	
	Heavy Metal	1C	Cu	100	7440-50-8	23.7	
	Elastomer	2B	Polyurethane (PUR)	100	9009-54-5	1.3	1
Encapsulation	Thermoplastic	2A	Polyphenylene sulfide (PPS)	35	26125-40-6	5.4	
			Glass fiber	65	65997-17-3		
	Organic, solid	5B	Quartz	30-50	14808-60-7	3.5	
			Dimethylvinylated and trimethylated silica	15-35	68988-89-6		
			Dimethyl siloxane, dimethylvinyl- terminated(VQM)	40-60	68083-19-2		
	Organia solid	5B	Dimethylhydropolysiloxane	63	68037-59-2	0.5	
	Organic, solid		Quartz	37	14808-60-7		
Termination	Heavy Metal	1C	Cu	94	7440-50-8	0.5	
			Sn	6	7440-31-5		
	Heavy Metal	1C	Cu	100	7440-50-8		Х
	Heavy Metal	1C	Sn	100	7440-31-5	0.1	
	•	•			Sum in total:	100	

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Sizes	weight range	part numbers	Sizes	weight range	part numbers	
[max. in mm]	[approx. in g]		[max. in mm]	[approx. in g]		
12.5x12.5x10.5	5.0	B82477E6254M000				

#### Not Part of a Product Class

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<sup>\*)</sup> 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.

<sup>\*\*)</sup> typical mass percentage of substance



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☐ Other Exemption than above .....