MKD AC Film Capacitor

Material Data Sheet

Product Class	**FilterCap MKD AC:** B32377 type B
Date	**November 1st, 2019**
IMDS ID if available	
Version	**01**

B32377 type 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)**
Active Part	Polymer	2A	Polypropylene	100	9003-07-0	36.5	
	Heavy Metal	1C	Zn	100	7440-66-6	9.4	
			others*):	2			
Encapsulation	Polymer	2A	DMC	100	23165-19-7	7	
	Polymer	2A	PBT	100	26062-94-2	2.1	
	Paper,Cardboard	6D	Cellulose	100	9004-34-6	0.8	
	Polymer	2C	Polyurethane resin	100	9003-29-6	26.7	
	Light Metal	1B	Al	100	7429-90-5	11.2	
	Polymer	2A	PE	100	24937-78-8	0.45	
	Polymer	2A	PA66	100	24936-68-3	1.8	
	Elastomer	2B	Silicon	100	7440-21-3	0.3	
Termination	Metal	1A	Steel	100	7439-89-6	1.6	
	Metal	1C	Brass	100	7440-31-5	0.3	
	Metal	1C	Sn	100	7440-31-5	0.93	
	Metal	1C	Copper	100	7440-50-8	0.9	
	Metal	1C	Ni	100	7440-02-0	0.02	
					Sum in total:	100	
Sizes DxH[mm] **96x169~136x356**	**Weight range [kg]** **1.3~5.5**				**Part numbers:** **B32377X**		

Not Part of a Product Class

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*) others: .(not declarable or prohibited substances acc. GADSL)

**) typical mass percentage of substance

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.

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.

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 aluminum 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. piezoelectronic 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 .....

