

<MKP Film Capacitors >

Material Data Sheet

Product Class	MKP AC Film Capacitors B32361*/B32362*/ B32364*	
Date	Oct. 25th/2024	
IMDS ID if available	NA	
Version	5.02.2a (10/2024)	

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	Thermal plastics	2A	Polypropylene	100	9003-07-0	36.5	
	Light Metals	1B	Aluminum	2	7429-90-5	7.4	
	Heavy Metals	1C	Zn	98	7440-66-6		
	Heavy Metals	1C	Sn	99	7440-31-5		
	Heavy Metals	1C	Cu	1	7440-50-8	0.3	
Encapsulation	Light Metals	1B	Aluminum	100	7429-90-5	15	
	Thermal plastics	2A	Polypropylene	100	9003-07-0	1.5	
	Thermal plastics	2A	PA	60	63428-84-2		
	Mineral Materials	3A	Glass Fiber	30	65997-17-3	1.7	
			Others*)	10			
	Thermal plastics	2A	PBT	75	26062-94-2		
		2B	Br	25	7726-95-6	4.5	
	Paper, Cardboard	6D	Cellulose	100	9004-34-6	0.8	
	Thermal plastics	2A	PBT	60	26062-94-2		
	Mineral Materials	3A	Glass Fiber	30	65997-17-3	1.3	
			Others*)	10			
	Polymer	2D	Polyurethane resin	100	9003-29-6	22.3	
Termination	Iron and steel	1A	Steel	100	65997-19-5	4.3	
	Heavy Metals	1C	Zn	100	7440-66-6	0.2	
	Heavy Metal	1C	Brass alloy	97	86376-49-0		
			Pb	3	7439-92-2	4	
	Heavy Metals	1C	Sn	100	7440-31-5	0.2	
Sum in total:						100	

sizesD x H [mm]	weight range [kg]	part numbers	sizesD x H [mm]	weight range [kg]	part numbers	sizesD x H [mm]	weight range [kg]	part numbers
63.5x70	0.3	B32361X	75x117	0.7	B32362X	63.5x97	0.35	B32364X
63.5x82	0.32		75x147	0.9		75x117	0.7	
63.5x107	0.4		75x152	0.9				
63.5x132	0.5		75x197	1.1				
63.5x142	0.6		85x117	0.8				
			85x152	1.0				
			85x197	1.3				
			85x247	1.7				
			85x267	1.8				

Not Part of a Product Class			
Contact	Richard Zhong	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 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