

MKP Film Capacitor

Material Data Sheet

Product Class	MKP Film Capacitor B32344xx	
Date	18/11/2019	
IMDS ID if available	NA	
Version	5.02.1a (03/2019)	

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	Heavy Metal	1C	Zinc	94	7440-66-6	3,5	
	Light Metal	1B	Aluminum	6	7429-90-5	1,3	
	Thermoplastic	2A	Polypropylene	100	9003-07-0	30,5	
Encapsulation	Thermoplastic	2A	PA66	100	32131-17-2	4,05	
	Thermoplastic	2A	PBT	100	26062-94-2	4,95	
	Thermoplastic	2A	PP	100	9003-07-0	1,65	
	Duromer	2C	Polyurethane resin	100	9009-54-5	34,62	
	Light Metal	1B	Aluminum	100	7429-90-5	10,95	
	Paper, Cardboard	6D	Cellulose	100	9004-34-6	0,46	
	Elastomer	2B	Silicon	100	7440-21-3	0,15	
Termination	Heavy Metal	1C	Cooper	100	7440-50-8	4,12	
	Mineral material	3B	Ceramic	100	13376-74-4	0,3	
		1C	Brass Alloy	97			
	Heavy Metals	1C	Pb	3	7439-92-2		
	Iron and Steel	1A	Steel	92	7439-89-6	2,26	
	Heavy Metal	1C	Tin	8	7440-31-5	0,3	
Sum in total:						100	

sizes [dxh]	weight range [kg.]	sizes [dxh]	weight range [kg]	sizes [dxh]	weight range [kg]	part numbers
79,5 x 138	0,4	89,5 x 198	0,8	89,5 x 348	1,5	B32344
79,5 x 160	0,51	89,5 x 198	0,91	89,5 x 348	1,35	
79,5 x 160	0,55	89,5 x 198	1,0	89,5 x 348	1,2	
79,5 x 160	0,50	89,5 x 198	1,5	89,5 x 348	1,8	
79,5 x 160	0,6	89,5 x 273	1,2			
79,5 x 198	0,6	89,5 x 273	1,5			
79,5 x 198	0,61	89,5 x 273	1,0			
79,5 x 198	0,8					
79,5 x 198	1,0					

Not Part of a Product Class

Contact	Perosa, Eduardo	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.
Division	CAP FILM, (GTI EPQM)	
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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 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 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