

MKK Film Capacitor

Material Data Sheet

Product Class	Film capacitors B25669xx
	PFC
Date	18/11/2019
IMDS ID	NA
if available	
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	Thermoplastic	2A	PP	100	9003-07-0	54.3	
	Heavy metal	1C	Zn AL	94 6	7440-66-6 7429-90-5	8.4	
	Thermoplastic	2A	Polyamide	100	628-02-4	0.6	
Encapsulation	Light metal	1B	Al	100	7429-90-5	8.9	
	Thermoplastic	2A	Polyamide	100	628-02-4	2.9	
	Operating supply	6G	N2 Gas	100	7727-37-9	0.02	
Termination	Light Metal	1B	Al	97	7429-90-5	0.7	
			Mg	3	7439-95-4		
	Thermoplastic	2A	Polyamide	100	628-02-4	10	
	Heavy metal	1C	Cu	100	7440-50-8	7	
	Organic solid	4B	Adhesive and Sealers	100		0.1	
	Thermoplastic	2A	Phenol Brass(Alloy)	98 97	108-95-2	1.6	
	Heavy Metals	1C	Pb	3	7439-92-2		
	Iron & Steel	1A	Fe	100	7439-89-6	1.8	
	Heavy metal	1C	Sn	99.3	7440-31-5	3.5	
			Cu	0.7	7440-50-8		
Termination	Iron and Steel	1A	Fe	92	7439-89-6		
	Heavy Metal	1C	Zn	8	7440-66-6	0,2	
				•	Sum in total:	100	

sizes w x h x l [mm] weight range [kg]

136 x 317 4.4 136 x 355 4.7

Not Part of a Product Class

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^{*)} 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



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 7 (a): Lead in high melting temperature type solder (i.e. lead-based alloys containing 85 % by weight or more lead); | Exemption 7 (c)-1: Electrical and electroric 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)-1: Lead in dielectric ceramic in capacitors for a rated voltage of 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;