

Aluminium Electrolytic Capacitor

Material Data Sheet

Product Class	Large size capacitors with snap in terminals	Remark: This material datasheet is valid for the part numbers contained in the Data Book 2019. In case of special (B4****S****) or obsolete capacitors please contact our sales department			
Date	29.08.2019				
IMDS ID if available					
Version	11				

Product Part (IMDS: semi component)	Material Class (IMDS: Material)	Material (Classificatio n) VDA 231	Substance	TMPS**) [wt%]	CAS if applicable	typical mass of material [wt-%]	Traces see 1)
Active Part	Light Metals	1B	Aluminium	100	7429-90-5	44	
	Acids, Bases, Salts	6F	Gamma-butyrolactone	57	96-48-0		
Acids, Bases, Salt		6F	N-methyl-2-pyrrolidone***	23	872-50-4	25	
	Acids, Bases, Salts	6F	Others*)	20	-		
	Thermoplastics	2A	Polypropylene	100	9003-07-0	0,1	
	Paper, Cardboard	5C	Cellulose	100	9004-34-6	11,9	
Encapsulation	Light Metals	1B	Aluminium	100	7429-90-5	11,0	
Paper, Cardboard		5C	Cellulose	56	9004-34-6	2.6	
	Duromer	2D	Phenolic plastic	44	-	2,6	
	Elastomer	2B	EPDM rubber	41,5	25038-36-2		
	Inorganic, solid	4A	4A Silicon dioxide 13		7631-86-9		
	Inorganic, solid	4A	Kaolinite	Kaolinite 28,5 1318-74-7 1,2		1,2	
	Lubricant	6B	Paraffin	10,5	8012-95-1		
	-	-	Others *)	6,5	-		
	Thermoplastics	2A	PTFE	100	9002-84-0	0,2	
	Thermoplastics	2A	Polyethylene terephthalate or without insulation	90	25038-59-9 -	3,0	
			Others *)	10	-		
Termination	Iron and Steel	1A	Iron	100	7439-89-6	1	
	Heavy Metals	1C	Copper	100	7440-50-8	<0,1	
ı	Heavy Metals	1C	Tin	100	7440-31-5	<0,1	
					Sum in total:	100	

						Sulli III	iolai.	100	
sizes D x L [mm]	weight range [g]	sizes D x L [mm]	weight range [g]	sizes D x L [mm]	weight range [g]	sizes D x L [mm]	weight range [g]	part numbers	
22 x 40	21	25 x 40	28	30 x 30	29	35 x 50	68	B41605 / B41607	
25 x 30	20	25 x 50	35	30 x 50	50				

Not Part of a Product Class

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

After May 2020 capacitors don't contain N-Methyl-2-Pyrrolidone.

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

^{***)} Between 19. February 2020 and May 2020 capacitors may contain N-Methyl-2-Pyrrolidone.



RoHS - Exemptions for the Product Class / Product according to Annex III: (valid not valid) In o exemption (a): Exemption 6 (a): Exemption 6 (b): Exemption 6 (c): Exemption 6 (c): Exemption 7 (c): Exemption 8 (c): Exemption 9 (c): Exemptio

□ 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