


Aluminium Electrolytic Capacitor

Material Data Sheet

Product Class	Snap in capacitors	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	07.11.2023	
IMDS ID if available		
Version	15	

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	Light Metals	1B	Aluminium	100	7429-90-5	44	
	Acids, Bases, Salts	6F	Ethylene glycol	80	107-21-1	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	
	Paper, Cardboard	5C	Cellulose	56	9004-34-6	2,6	
	Duromer	2D	Phenolic plastic	44	-		
	Elastomer	2B	EPDM rubber	41,5	25038-36-2	1,2	
	Inorganic, solid	4A	Silicon dioxide	13	7631-86-9		
	Inorganic, solid	4A	Kaolinite	28,5	1318-74-7		
	Lubricant	6B	Paraffin	10,5	8012-95-1		
	-	-	Others *)	6,5	-		
	Thermoplastics	2A	PTFE****) or Polypropylene****)	100	9002-84-0 9003-07-0	0,2	
	Thermoplastics	2A	Polyvinyl chloride or Polyethylene terephthalate or without insulation	90	9002-86-2 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	
	Heavy Metals	1C	Tin	100	7440-31-5	<0,1	
Sum in total:						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 25	9	25 x 25	13	30 x 25	17	35 x 25	22	B41303
22 x 30	12	25 x 30	17	30 x 30	23	35 x 30	29	B41605
22 x 35	15	25 x 35	19	30 x 35	29	35 x 35	36	B41607
22 x 40	18	25 x 40	22	30 x 40	36	35 x 40	41	B43303/ B43304/ B43305
22 x 45	20	25 x 45	25	30 x 45	41	35 x 45	56	B43501 / B43502/ B43503
22 x 50	24	25 x 50	29	30 x 50	46	35 x 50	70	B43504 / B43505
		25 x 55	32	30 x 55	53	35 x 55	81	B43508 / B43509 / B43510
		25 x 60	36	30 x 60	58	35 x 60	92	B43540 / B43541 / B43543/ B43544 /
		25 x 65	39	30 x 65	64	35 x 65	103	B43545 / B43547/ B43548
		25 x 70	42	30 x 70	69	35 x 70	112	B43601 / B43624 / B43630 /
		25 x 75	45	30 x 75	74	35 x 75	123	B43634 / B43635
		25 x 80	48	30 x 80	80	35 x 80	133	B43640 / B43641 / B43642 /
				30 x 85	86	35 x 85	142	B43643 / B43644 / B43647/
				30 x 90	92	35 x 90	159	B43648 / B43649
				30 x 95	98	35 x 95	171	B43652 / B43654 / B43657 /
				30 x 100	103	35 x 100	182	B43658
								B43659
								B43991

Not Part of a Product Class		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
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*) others: (not declarable or prohibited substances acc. GADSL)
 **) typical mass percentage of substance
 ***) not all capacitor contains PTFE or PP on the cover disc as coating
 ****) the data for d25 are also valid for d25.4

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