

Aluminium Electrolytic Capacitor

Material Data Sheet

Product Class	Soldering Star Capacitors	
Date	06/12/2023	
IMDS ID if available	-	
Version	09	F



Remark: This material datasheet is valid for the part numbers contained in the Data Book 2017. In case of special (B4****S*****) or obsolete capacitors please contact our sales department.

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	1B1	Aluminium	100	7429-90-5	35	
	Acids, Bases, Salts	6F	Ethylene glycol or Gamma-butyrolactone	65 or (90 if without NMP)	107-21-1 96-48-0	25	
	Acids, Bases, Salts	6F	1-methyl-2-pyrrolidinone (NMP) ***)	25	872-50-4		
	-	-	Others *)	10	-		
	Paper, Cardboard	5C	Cellulose	100	9004-34-6	8,7	
Encapsulation	Light Metals	1B1	Aluminium	99,5	7429-90-5	40.0	
	-	-	Others *)	0,5	-	18,3	
	Paper, Cardboard	5C	Cellulose	99,6	9004-34-6	1,1	
	-	-	Others *)	0,4	-		
	Duromer	2D	Phenolic resin	100	9003-35-4	2,0	
	Elastomer	2B	EPDM rubber	41,5	25038-36-2	1,8	
	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	100	9002-84-0	0,1	
	Thermoplastics	2A	PET	90	25038-59-9	1,8	
	-	-	Others *)	10	-		
Termination	Iron and Steel	1A	Iron	99	7439-89-6	F 7	
	-	-	Others *)	1	-	5,7	
	Heavy Metals	1C12	Copper	100	7440-50-8	0,4	
	Heavy Metals	1C8	Tin	100	7440-31-5	0,1	
					Sum in total:	100	

sizes D x L [mm]	weight [g]	sizes D x L [mm]	weight [g]	part numbers
12 x 30	5,4	18 x 30	11,8	B41787 B41789
14 x 25	6,1	18 x 35	13,2	B41790 B41791 B41792
14 x 30	7,2	18 x 39	15,4	
16 x 25	7,9	21 x 30	17,1	B41793
16 x 30	9,4	21 x 35	18,3	B41796 B43793
16 x 35	10,9	21 x 39	21,0	B43/93
16 x 39	12,2	21 x 49	26,0	
18 x 25	9,9			

Not applicable for the following part numbers (refer to the Not RoHS material datasheet)

841796A5228Q000

841793A 107Q000

841796A5338Q000

841793A 227Q000

841793A 477Q000

841793A9337Q000

Not Part of a Product Class

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	Tel: +55 51 3484 7000 mailto: epqm.gc@tdk-electronics.tdk.com *) 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.

 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 **) typical mass percentage of substance statements or binding product specifications, unless otherwise explicitly agreed in ***) Following products present NMP: 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 B41791A5158Q B41792A8687Q VALUES CONTAINED HEREIN, INCLUDING BUT NOT LIMITED TO ANY B41791A7108Q REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR SUITABILITY B41793A 687Q FOR ANY PURPOSE. B41791A8477Q B41793A5158Q B41793A8477Q B41792A5228Q B41790A8258Q B41792A7158Q 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)-1: 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 ..