


Aluminium Electrolytic Capacitor

Material Data Sheet

Product Class	Snap-In Capacitors	
Date	27/08/2014	
IMDS ID if available	-	
Version	03	

Remark: This material datasheet is valid for the part numbers contained in the Data Book 2015. 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	37,2	
	Acids, Bases, Salts	6F	Ethylene glycol	75	107-21-1	19,5	
	Acids, Bases, Salts	6F	Others*)	25	-		
	Paper, Cardboard	5C	Cellulose	100	9004-34-6	16,6	
Encapsulation	Light Metals	1B1	Aluminium	99,5	7429-90-5	14,7	
	-	-	Others *)	0,5	-		
	Paper, Cardboard	5C	Cellulose	99,6	9004-34-6	1,5	
	-	-	Others *)	0,4	-		
	Duromer	2D	Phenolic resin	100	9003-35-4	2,7	
	Elastomer	2B	EPDM Rubber	41,5	25038-36-2	2,3	
	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	Polypropylene or PTFE	100	9003-07-0 9002-84-0	0,1	
	Thermoplastics	2A	Polyethylene Naphtalate	59,5	25230-87-9	0,4	
	Thermoplastic Elastomer	2C	Polysiloxane Adhesive	27,5	68440-70-0		
	Inorganic, solid	4A	Titanium Dioxide	3	1317-80-2		
	-	-	Others*)	10	-		
	Thermoplastics	2A	Polyvinyl chloride or Polyethylene terephthalate	90	9002-86-2 25038-59-9	3,2	
-	-	Others *)	10	-			
Termination	Iron and Steel	1A	Iron	99	7439-89-6	1,6	
	-	-	Others *)	1	-		
	Heavy Metals	1C12	Copper	100	7440-50-8	0,1	
	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]	sizes D x L [mm]	weight [g]	part numbers
22 x 25	9,00	25 x 45	25,00	30 x 55	53,00	B41505
22 x 30	12,00	25 x 50	29,00	35 x 25	22,00	B43504
22 x 35	15,00	25 x 55	32,00	35 x 30	29,00	B43505
22 x 40	18,00	30 x 25	17,00	35x 35	36,00	
22 x 45	20,00	30 x 30	23,00	35 x 40	41,00	
25 x 25	13,00	30 x 35	29,00	35 x 45	56,00	
25 x 30	17,00	30 x 40	36,00	35 x 50	70,00	
25 x 35	19,00	30 x 45	41,00	35 x 55	81,00	
25 x 40	22,00	30 x 50	46,00			

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. EPCOS 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	GTI ALU	
Address	Bernardo Joaquim Ferreira, 624 – Gravataí, RS, Brazil	
	Tel: +55 51 3484 7380 mailto: eduardo.perosa@epcos.com	
*) others: (not declarable or prohibited substances acc. GADSL)		
**) typical mass percentage of substance		
<p>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.</p> <p>RoHS - Exemptions for the Product Class / Product according to Annex III: (<input checked="" type="checkbox"/> valid <input type="checkbox"/> not valid)</p> <p><input checked="" type="checkbox"/> no exemptions;</p> <p><input type="checkbox"/> 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;</p> <p><input type="checkbox"/> Exemption 6 (b): Lead as an alloying element in aluminium containing up to 0,4 % lead by weight;</p> <p><input type="checkbox"/> Exemption 6 (c): Copper alloy containing up to 4 % lead by weight;</p> <p><input type="checkbox"/> Exemption 7 (a): Lead in high melting temperature type solder (i.e. lead-based alloys containing 85 % by weight or more lead);</p> <p><input type="checkbox"/> 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;</p> <p><input type="checkbox"/> Exemption 7 (c)-II: Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher;</p> <p><input type="checkbox"/> Exemption 7 (c)-III: Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC;</p> <p><input type="checkbox"/> Exemption 15: Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages;</p> <p><input type="checkbox"/> Other Exemption than above</p>		