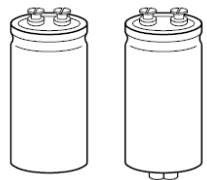


# Aluminium Electrolytic Capacitor

# Material Data Sheet

<b>Product Class</b>	Capacitors for pulse application with screw terminals	
<b>Date</b>	2016.01.25	
<b>IMDS ID if available</b>		
<b>Version</b>	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)
<b>Active Part</b>	Light Metals	1B	Aluminium	100	7429-90-5	37	
	Acids, Bases, Salts	6F	Ethylene glycol	80	107-21-1	23	
	Acids, Bases, Salts	6F	Others*)	20	-		
	Thermoplastics	2A	Polypropylene	100	9003-07-0	0,1	
	Paper, Cardboard	5C	Cellulose	100	9004-34-6	14,9	
<b>Encapsulation</b>	Light Metals	1B	Aluminium	100	7429-90-5	13	
	Glass fiber	3A	Silicon dioxide	60	14808-60-7	7	
	Duromer	2D	Phenolic and epoxy resin	40	-		
	Elastomer	2B	EPDM rubber	41,5	25038-36-2	0,5	
	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	Polyvinyl chloride or Polyethylene terephthalate and/or Polypropylene or without insulation	90	9002-86-2 25038-59-9 9003-07-0	1,5	
-	-	others*)	10				
<b>Termination</b>	Light Metals	1B	Aluminium	100	7429-90-5	3	
<b>Sum in total:</b>						<b>100</b>	
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	
51,6 x 87	220	76,8-76,9 x x 143,2-	900	91 x 145,6	1250	B43406	
64,3 x 105,7	360	143,7		91 x 220	2000	B43407	
76,8-76,9 x 130,7	855	76,8-76,9 x x 190,7	1200				

<b>Not Part of a Product Class</b>		
<b>Contact</b>	Dr. Ildikó Száraz	
<b>Division</b>	SZ CAP QA	
<b>Address</b>	Szent László u. 6. H-9700 Szombathely / Hungary	
	Tel: +36 94 522 319	mailto: <a href="mailto:ildiko.szaraz@epcos.com">ildiko.szaraz@epcos.com</a>
<b>Important remarks:</b>		
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.		
*) others: (not declarable or prohibited substances acc. GADSL)		
**) typical mass percentage of substance		
<p><b>The products set forth herein are "RoHS-compatible".</b> 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 8<sup>th</sup>, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.</p> <p><b>RoHS - Exemptions for the Product Class / Product according to Annex III:</b> ( <input checked="" type="checkbox"/> valid <input type="checkbox"/> not valid )</p> <p><input checked="" type="checkbox"/> <b>no exemptions;</b></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>		