

Aluminium Electrolytic Capacitor

Material Data Sheet

Product Class:	Soldering Star capacitors	
Date	06.10.2011	
IMDS ID if available		
Version:	05	

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	33	
	Paper, Cardboard	5C	Cellulose	100	9004-34-6	7	
	Acids, Bases, Salts	6F	Ethylene glycol or Gamma-butyrolactone	57 or 81 (without NMP)	107-21-1 96-48-0	25	
	Acids, Bases, Salts	6F	NMP (depending on specific type***)	24	872-50-4		
	Acids, Bases, Salts	6F	Others*)	19	-		
Encapsulation	Light Metals	1B1	Aluminium	100	7429-90-5	21	
	Paper, Cardboard	5C	Cellulose	100	9004-34-6	0,7	
	Duromer	2D	Epoxy Based Polymer	100	25928-94-3	2,3	
	Elastomer	2B	EPDM rubber	100	25038-36-2	1	
	Thermoplastics	2A	Polyethylene terephthalate	100	25038-59-9	2	
Termination	Iron and Steel	1A	Iron	100	7439-89-6	7,5	Carbon, Tin, Lead
	Heavy Metals	1C12	Copper	100	7440-50-8	0,5	

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:	
12 x 30	5,4	16 x 25	7,9	18 x 30	11,8	B41790	B41794
14 x 25	6,1	16 x 30	9,4	18 x 39	15,4	B41791	B41795
14 x 30	7,2	16 x 39	12,2	21 x 39	21,0	B41792	B41796
				21 x 49	26,0	B41793	B43793

Not part of a Product Class



Contact	Ribeiro, Gabriela	Important remarks: 1) The declaration limit is 0,1% as defined by 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.																																																																																																																																															
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<p>*) others: (not declarable or prohibited substances acc. GADSL)</p> <p>***) typical mass percentage of substance</p> <p>***) Following products present NMP:</p> <table border="0"> <tr><td>B41790X 7M368</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>B41790X 7M587</td><td>B41791X 7Q522</td><td>B41792X 7M491</td><td>B41795A8108Q</td><td></td><td></td></tr> <tr><td>B41790X 7M601</td><td>B41791X 7Q562</td><td>B41792X 7Q162</td><td>B41795A8477Q</td><td></td><td></td></tr> <tr><td>B41790X 7M622</td><td>B41791X 7Q575</td><td>B41792X 7Q202</td><td>B41795S 567Q 1</td><td></td><td></td></tr> <tr><td>B41790X 7Q614</td><td>B41791X 7Q576</td><td>B41792X 7Q206</td><td>B41795S 827Q 21</td><td></td><td></td></tr> <tr><td>B41791A5108Q</td><td>B41791X 7Q580</td><td>B41793A 687Q</td><td>B41795X 3Q417</td><td></td><td></td></tr> <tr><td>B41791A7108Q</td><td>B41791X 7Q660</td><td>B41793A5477Q</td><td>B41795X 6A852</td><td></td><td></td></tr> <tr><td>B41791A7687Q</td><td>B41791X 7Q663</td><td>B41793A7337Q</td><td>B41795X 6Q691</td><td></td><td></td></tr> <tr><td>B41791A8107Q</td><td>B41791X 7Q617</td><td>B41793A7687Q</td><td>B41795X 6Q808</td><td></td><td></td></tr> <tr><td>B41791A8687Q</td><td>B41791X 7Q624</td><td>B41793A8477Q</td><td>B41795X 6Q874</td><td></td><td></td></tr> <tr><td>B41791S7128Q 21</td><td>B41791X 7Q628</td><td>B41793S 477Q 21</td><td>B41795X 7Q 80</td><td></td><td></td></tr> <tr><td>B41791S8108Q 21</td><td>B41791X 7Q699</td><td>B41793X 3Q445</td><td>B41795X 7Q160</td><td></td><td></td></tr> <tr><td>B41791S8687Q 21</td><td>B41791X 7Q700</td><td>B41793X 6Q696</td><td>B41795X 7Q190</td><td></td><td></td></tr> <tr><td>B41791X 3Q401</td><td>B41792A8337Q</td><td>B41793X 6Q698</td><td>B41795X 7Q191</td><td></td><td></td></tr> <tr><td>B41791X 3Q419</td><td>B41792S8158Q 1</td><td>B41793X 7Q311</td><td>B41795X 7Q192</td><td></td><td></td></tr> <tr><td>B41791X 3Q425</td><td>B41792X 6M979</td><td>B41793X 7Q348</td><td>B41795X 7Q233</td><td></td><td></td></tr> <tr><td>B41791X 6Q811</td><td>B41792X 6Q759</td><td>B41793X 7Q493</td><td>B41795X 7Q234</td><td></td><td></td></tr> <tr><td>B41791X 6Q848</td><td>B41792X 6Q790</td><td>B41793X 7Q494</td><td>B41795X 7Q235</td><td></td><td></td></tr> <tr><td>B41791X 6Q871</td><td>B41792X 6Q793</td><td>B41793X 7Q523</td><td>B41795X 7Q330</td><td></td><td></td></tr> <tr><td>B41791X 7M335</td><td>B41792X 6Q794</td><td>B41793X 7Q524</td><td>B41795X 7Q382</td><td></td><td></td></tr> <tr><td>B41791X 7M439</td><td>B41792X 6Q795</td><td>B41793X 7Q525</td><td>B41795X 7Q386</td><td></td><td></td></tr> <tr><td>B41791X 7Q 60</td><td>B41792X 6Q833</td><td>B41793X 7Q528</td><td>B41795X 7Q415</td><td></td><td></td></tr> <tr><td>B41791X 7Q486</td><td>B41792X 6Q857</td><td>B41795A5108Q</td><td>B41795X 7Q426</td><td></td><td></td></tr> <tr><td>B41791X 7Q517</td><td>B41792X 7M464</td><td>B41795A5338Q</td><td>B41795X 7Q585</td><td></td><td></td></tr> </table>		B41790X 7M368						B41790X 7M587	B41791X 7Q522	B41792X 7M491	B41795A8108Q			B41790X 7M601	B41791X 7Q562	B41792X 7Q162	B41795A8477Q			B41790X 7M622	B41791X 7Q575	B41792X 7Q202	B41795S 567Q 1			B41790X 7Q614	B41791X 7Q576	B41792X 7Q206	B41795S 827Q 21			B41791A5108Q	B41791X 7Q580	B41793A 687Q	B41795X 3Q417			B41791A7108Q	B41791X 7Q660	B41793A5477Q	B41795X 6A852			B41791A7687Q	B41791X 7Q663	B41793A7337Q	B41795X 6Q691			B41791A8107Q	B41791X 7Q617	B41793A7687Q	B41795X 6Q808			B41791A8687Q	B41791X 7Q624	B41793A8477Q	B41795X 6Q874			B41791S7128Q 21	B41791X 7Q628	B41793S 477Q 21	B41795X 7Q 80			B41791S8108Q 21	B41791X 7Q699	B41793X 3Q445	B41795X 7Q160			B41791S8687Q 21	B41791X 7Q700	B41793X 6Q696	B41795X 7Q190			B41791X 3Q401	B41792A8337Q	B41793X 6Q698	B41795X 7Q191			B41791X 3Q419	B41792S8158Q 1	B41793X 7Q311	B41795X 7Q192			B41791X 3Q425	B41792X 6M979	B41793X 7Q348	B41795X 7Q233			B41791X 6Q811	B41792X 6Q759	B41793X 7Q493	B41795X 7Q234			B41791X 6Q848	B41792X 6Q790	B41793X 7Q494	B41795X 7Q235			B41791X 6Q871	B41792X 6Q793	B41793X 7Q523	B41795X 7Q330			B41791X 7M335	B41792X 6Q794	B41793X 7Q524	B41795X 7Q382			B41791X 7M439	B41792X 6Q795	B41793X 7Q525	B41795X 7Q386			B41791X 7Q 60	B41792X 6Q833	B41793X 7Q528	B41795X 7Q415			B41791X 7Q486	B41792X 6Q857	B41795A5108Q	B41795X 7Q426			B41791X 7Q517	B41792X 7M464	B41795A5338Q	B41795X 7Q585		
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<p>The products set forth herein are NOT 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>																																																																																																																																																	