

ALUMINUM ELECTROLYTIC CAPACITORS



CHJ Series

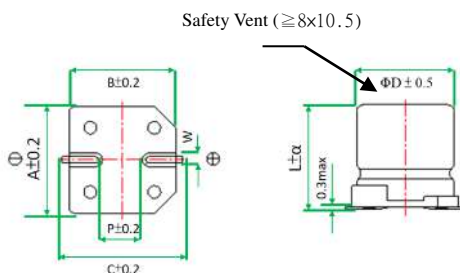
- High temperature at 125°C
- Load life 1,000 to 5,000 hours



◆ SPECIFICATIONS

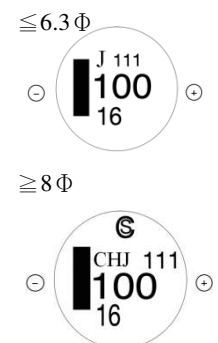
Item	Performance Characteristics																																					
Category Temperature Range	-40 ~ +125°C																																					
Working Voltage Range	10 ~ 450Vdc																																					
Capacitance Range	3.3 ~1,000 μF																																					
Capacitance Tolerance	±20% (at 25°C and 120Hz)																																					
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160~250</th> <th>400~450</th> </tr> </thead> <tbody> <tr> <td rowspan="2">tanδ(Max)</td> <td>φ6.3~φ10</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> <td>0.18</td> <td>0.18</td> <td>-</td> <td>-</td> </tr> <tr> <td>φ12.5</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.14</td> <td>0.10</td> <td>0.20</td> <td>0.20</td> </tr> </tbody> </table>	Rated Voltage (V)	10	16	25	35	50	63	100	160~250	400~450	tanδ(Max)	φ6.3~φ10	0.24	0.20	0.16	0.14	0.14	0.18	0.18	-	-	φ12.5	0.22	0.18	0.16	0.14	0.12	0.14	0.10	0.20	0.20						
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	φ12.5	0.22	0.18	0.16	0.14	0.12	0.14	0.10	0.20	0.20																												
The above values should be increased by 0.02 for every additional 1000μF																																						
Leakage Current	(10V~100V) I=0.03CV or 4μA whichever is greater impress the rated voltage for 2 minutes. (160V~450V) I=0.04CV+100μA whichever is greater impress the rated voltage for 2 minutes. I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V)																																					
Low Temperature Characteristics Impedance Ratio(MAX)	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35~100</th> <th>160~250</th> <th>400~450</th> </tr> </thead> <tbody> <tr> <td rowspan="2">φ6.3~φ10</td> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>-</td> <td>-</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>-</td> <td>-</td> </tr> <tr> <td rowspan="2">φ12.5</td> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>3</td> <td>6</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>6</td> <td>10</td> </tr> </tbody> </table>	Rated voltage (V)	10	16	25	35~100	160~250	400~450	φ6.3~φ10	Z(-25°C)/Z(+20°C)	4	3	2	2	-	-	Z(-40°C)/Z(+20°C)	10	8	6	4	-	-	φ12.5	Z(-25°C)/Z(+20°C)	4	3	2	2	3	6	Z(-40°C)/Z(+20°C)	8	6	4	3	6	10
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	Z(-40°C)/Z(+20°C)	8	6	4	3	6	10																															
(at 120Hz)																																						
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated voltage is applied for 5,000 hours (φ8x10.5~ φ10 for 2,000 hours), (φ6.3 for 1,000 hours) at 125°C. Rated voltage is applied for 2,000hours (160~450V ,φ12.5) at 125°C.																																					
	<table border="1"> <tbody> <tr> <td>Capacitance change</td> <td>≅ ±30% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≅ 300% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≅ specified value</td> </tr> </tbody> </table>	Capacitance change	≅ ±30% of the initial value	Dissipation factor(tanδ)	≅ 300% of the specified value	Leakage current	≅ specified value																															
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Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 125°C without voltage applied.																																					
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Others	Conforms to JIS-C-5101-4 (1998), characteristic W																																					

◆ DIMENSIONS (mm)



Code	Size	ΦD	L	α	A	B	C	W	P
6358	6.3x5.8	6.3	5.8	^{+0.4} _{-0.1}	6.6	6.6	7.3	0.5~0.8	2.1
6377	6.3x7.7	6.3	7.7	0.3	6.6	6.6	7.3	0.5~0.8	2.1
08A5	8x10.5	8	10.5	0.5	8.3	8.3	9.1	0.8~1.2	3.1
10A5	10x10.5	10	10.5	0.5	10.3	10.3	11.0	0.8~1.2	4.6
10C5	10x12.5	10	12.5	0.5	10.3	10.3	11.0	0.8~1.2	4.6
12D5	12.5x13.5	12.5	13.5	1.0	12.8	12.8	13.8	0.8~1.2	4.6
1216	12.5x16	12.5	16	1.0	12.8	12.8	13.8	0.8~1.2	4.6

◆ Marking



Aluminum Electrolytic Capacitor

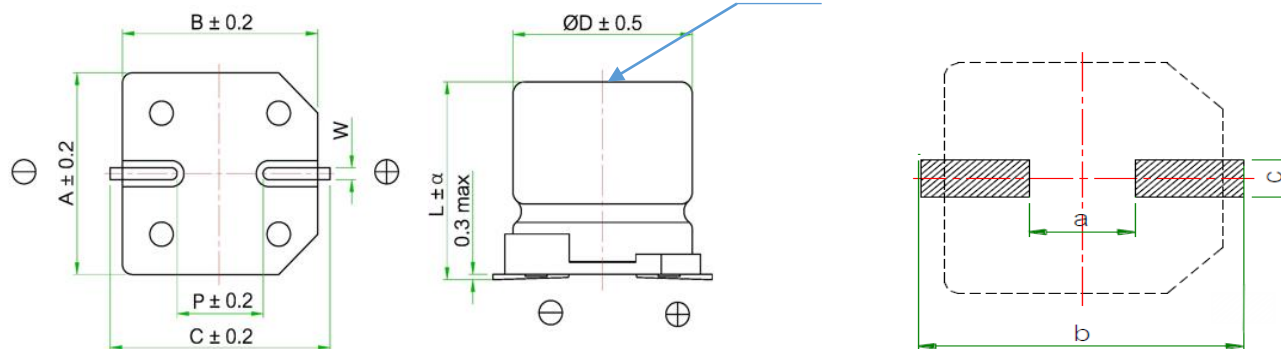
Customer	Digi-Key	SERIES	CHJ	NO.:	PUBLISH DATE	2022-03-28
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1、Tape & Reel (TR)/ Cut Tape (CT)/ Digi-Reel.

2、Diagram of Dimensions (unit : mm.), and Recommended soldering pad dimensions.

Size Code	ΦD	L	A	B	C	W	P	α	a	b	c
12D5	12.5	13.5	12.8	12.8	13.8	0.8~1.2	4.6	1.0	4.0	15.4	3.0

Safety Vent ($\geq 8 \times 10.5$)



No.	CHINSAN Part No.	Customer Part No.	Capacitance (uF)	Tolerance On rated Capacitance (%)	Working Voltage (Vdc)	Surge Voltage (Vdc)	Category Temp Range (°C)	Tanδ @ 25°C (120Hz) (Max)	Leakage Current (uA) (2 min.)	Rated Ripple Current (mA rms) @ 125°C 120Hz	Rated Ripple Current (mA rms) @ 125°C 100kHz	ESR @20°C (Ω max/ 100kHz)	Endurance @ 125°C (Hours)	Dimensions (mm)					Appearance Drawing No
														DΦ	L	a	d	P	
1	CHJ1J221MCB12D5F2		220	±20%	63		-40° C ~ 125° C	0.14	415.8	/	500 mA @ 100 kHz	0.25 Ω	2000 Hrs @ 125° C	12.5mm	13.5mm			4.6mm	

※Test leakage current before testing dissipation factor and capacitance during the electric characteristic test.

REMARKS:	APPROVED BY	CHECKED BY	PREPARED BY
	李科高	张铭仁	聂婷