

ALUMINUM ELECTROLYTIC CAPACITORS



CHJ Series

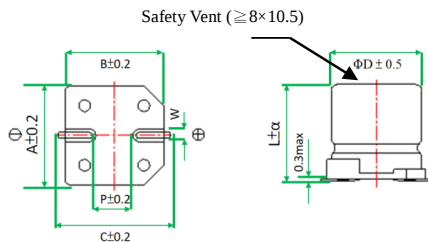
- High temperature at 125°C
- Load life 1,000 to 5,000 hours



◆ SPECIFICATIONS

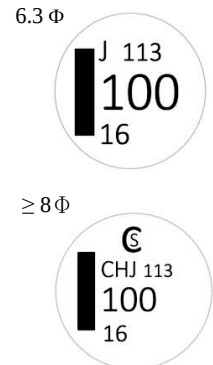
Item	Performance Characteristics																																															
Category Temperature Range	-40 ~ +125°C																																															
Working Voltage Range	10 ~ 450Vdc																																															
Capacitance Range	3.3 ~ 1,000 μF																																															
Capacitance Tolerance	±20% (at 25°C and 120Hz)																																															
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table><tr><td>Rated Voltage (V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160~250</td><td>400~450</td></tr><tr><td>tanδ(Max)</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>0.20</td><td>0.20</td></tr></table>										Rated Voltage (V)	10	16	25	35	50	63	100	160~250	400~450	tanδ(Max)	0.24	0.20	0.16	0.14	0.14	0.18	0.18	0.20	0.20																		
	Rated Voltage (V)	10	16	25	35	50	63	100	160~250	400~450																																						
	tanδ(Max)	0.24	0.20	0.16	0.14	0.14	0.18	0.18	0.20	0.20																																						
When nominal capacitance exceeds 1,000uF, add 0.02 to the value above for each 1,000uF increase.																																																
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 minute I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V)																																															
Low Temperature Characteristics Impedance Ratio(MAX)	<table><tr><td colspan="2">Rated voltage (V)</td><td>10</td><td>16</td><td>25</td><td>35~100</td><td>160~250</td><td>400~450</td></tr><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></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
	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																																									
(at 120Hz)																																																
Endurance	The following specifications shall be satisfied when the capacitor are restored to 25°C after subjected to DC voltage with the rated voltage is applied for 5,000 hours (Φ8×10.5~ Φ10 for 2,000 hours), (Φ6.3 for 1,000 hours) at 125°C. Rated voltage is applied for 2,000hours (160V~450V , Φ12.5) at 125°C.																																															
	Capacitance change		≤ ±30% of the initial value																																													
	Dissipation factor(tanδ)		≤ 300% of the specified value																																													
	Leakage current		≤ specified value																																													
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 105°Cwithout voltage applied.																																															
	Capacitance change		≤ ±30% of the initial value																																													
	Dissipation factor(tanδ)		≤ 300% of the specified value																																													
	Leakage current		≤ 200% of the specified value																																													
Others	Conforms to JIS-C-5101-18-2 (1999)																																															

◆ DIMENSIONS (mm)



Code	Size	ΦD	L	α	A	B	C	W	P
6358	6.3×5.8	6.3	5.8	$^{+0.4}_{-0.1}$	6.6	6.6	7.3	0.5~0.8	2.1
6377	6.3×7.7	6.3	7.7	± 0.3	6.6	6.6	7.3	0.5~0.8	2.1
08A5	8×10.5	8.0	10.5	± 0.5	8.3	8.3	9.1	0.8~1.2	3.1
10A5	10×10.5	10.0	10.5	± 0.5	10.3	10.3	11	0.8~1.2	4.6
10C5	10×12.5	10.0	12.5	± 0.5	10.3	10.3	11	0.8~1.2	4.6
12D5	12.5×13.5	12.5	13.5	± 1.0	12.8	12.8	13.8	0.8~1.2	4.6
1216	12.5×16	12.5	16.0	± 1.0	12.8	12.8	13.8	0.8~1.2	4.6

◆ MARKING



◆ **PART NUMBER SYSTEM (Example : 16V 100 μ F)**

Digit	Meaning
C	Series code (CHJ)
H	Voltage code (16V)
J	Capacitance code (100µF)
1	Capacitance tolerance code (M: ±20%)
C	Lead forming Type code
1	Terminal length code
0	Size code (08A5: 8×10.5)
1	Special Request
M	Size code (08A5: 8×10.5)
C	Terminal length code
B	Lead forming Type code
0	Capacitance tolerance code (M: ±20%)
8	Capacitance code (100µF)
A	Voltage code (16V)
5	Series code (CHJ)

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	ESR. (Ωmax/ 20°C, 100kHz)	Rated Ripple current (mA rms/ 125°C, 100kHz)	Part Number
10 (1A)	100	6.3×7.7	2.3	72	CHJ1A101MCB6377
	220	8×10.5	1.0	136	CHJ1A221MCB08A5
	330	10×10.5	0.7	188	CHJ1A331MCB10A5
	470	10×12.5	0.5	300	CHJ1A471MCB10C5
	1000	12.5×13.5	0.14	750	CHJ1A102MCB12D5
	1000	12.5×16	0.11	1000	CHJ1A102MCB1216
16 (1C)	47	6.3×5.8	3.3	43	CHJ1C470MCB6358
	100	8×10.5	1.0	115	CHJ1C101MCB08A5
	220	10×10.5	0.7	175	CHJ1C221MCB10A5
	330	10×12.5	0.5	280	CHJ1C331MCB10C5
	470	12.5×13.5	0.14	750	CHJ1C471MCB12D5
	680	12.5×13.5	0.14	750	CHJ1C681MCB12D5
25 (1E)	33	6.3×5.8	3.3	45	CHJ1E330MCB6358
	47	6.3×7.7	2.3	68	CHJ1E470MCB6377
	100	8×10.5	1.0	126	CHJ1E101MCB08A5
	220	10×10.5	0.7	211	CHJ1E221MCB10A5
	330	10×10.5	0.6	200	CHJ1E331MCB10A5
	330	10×12.5	0.5	270	CHJ1E331MCB10C5
	330	12.5×13.5	0.14	750	CHJ1E331MCB12D5
	470	12.5×13.5	0.14	750	CHJ1E471MCB12D5
	35 (1V)	10	6.3×5.8	3.3	38
35 (1V)	22	6.3×5.8	3.3	39	CHJ1V220MCB6358
	33	6.3×7.7	2.3	62	CHJ1V330MCB6377
	47	8×10.5	1.0	92	CHJ1V470MCB08A5

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	ESR. (Ωmax/ 20°C, 100kHz)	Rated Ripple current (mA rms/ 125°C, 100kHz)	Part Number
35 (1V)	100	10×10.5	0.7	151	CHJ1V101MCB10A5
	220	10×12.5	0.5	260	CHJ1V221MCB10C5
	220	12.5×13.5	0.14	750	CHJ1V221MCB12D5
	330	12.5×13.5	0.14	750	CHJ1V331MCB12D5
	470	12.5×16	0.11	900	CHJ1V471MCB1216
50 (1H)	10	6.3×5.8	3.3	38	CHJ1H100MCB6358
	10	6.3×7.7	2.3	50	CHJ1H100MCB6377
	22	6.3×7.7	2.3	50	CHJ1H220MCB6377
	33	8×10.5	1.0	83	CHJ1H330MCB08A5
	47	10×10.5	0.7	111	CHJ1H470MCB10A5
	100	12.5×13.5	0.23	550	CHJ1H101MCB12D5
	220	12.5×13.5	0.23	550	CHJ1H221MCB12D5
	330	12.5×16	0.18	700	CHJ1H331MCB1216
63 (1J)	10	6.3×7.7	2.3	42	CHJ1J100MCB6377
	22	8×10.5	1.0	56	CHJ1J220MCB08A5
	33	10×10.5	0.7	77	CHJ1J330MCB10A5
	47	10×12.5	0.45	150	CHJ1J470MCB10C5
	100	12.5×13.5	0.25	500	CHJ1J101MCB12D5
	220	12.5×16	0.20	600	CHJ1J221MCB1216
100 (2A)	10	8×10.5	1.3	53	CHJ2A100MCB08A5
	22	10×10.5	0.70	63	CHJ2A220MCB10A5
	33	10×12.5	0.45	130	CHJ2A330MCB10C5
	47	12.5×13.5	0.33	450	CHJ2A470MCB12D5
	68	12.5×16	0.26	550	CHJ2A680MCB1216

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	Rated Ripple current (mA rms/ 125°C, 120Hz)	Part Number
160 (2C)	10	12.5×13.5	100	CHJ2C100MCB12D5
200 (2D)	10	12.5×13.5	100	CHJ2D100MCB12D5
250 (2E)	10	12.5×16	110	CHJ2E100MCB1216

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	Rated Ripple current (mA rms/ 125°C, 120Hz)	Part Number
400 (2G)	4.7	12.5×13.5	65	CHJ2G4R7MCB12D5
450 (2W)	3.3	12.5×16	70	CHJ2W3R3MCB1216

Vdc	Cap(μF)	Frequency (Hz)				
		50	120	1K	10K	10K~
10~100	10~100	0.35	0.40	0.75	0.90	1.00
	220~470	0.35	0.50	0.85	0.94	1.00
	680~1000	0.40	0.60	0.85	0.95	1.00
160~450	3.3~10	0.75	1.00	1.50	1.75	1.80