CDME SERIES

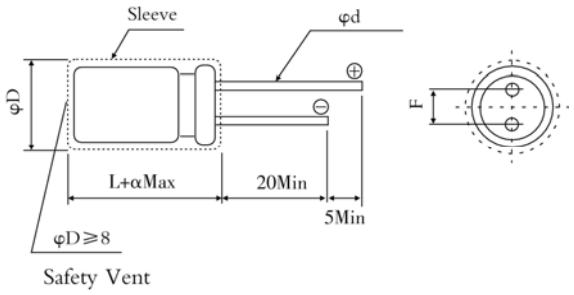
ALUMINUM ELECTROLYTIC CAPACITORS

- Load life of 5000 hours at 105℃
- Wide temperature and low impedance at 100KHz

■ SPECIFICATIONS

Item	Characteristics
Operating Temperature Range(℃)	-40~+105
Rated Voltage Range (V)	6.3~100
Nominal capacitance range (μF)	0.47~15000
Capacitance Tolerance(20℃,120Hz)	±20%
Leakage current (μA)	I≤0.01CV or 3 (Whichever is greater) C: Nominal Capacitance (μF) V: Rated Voltage (V)
Dissipation Factor(20℃,120Hz)	Rated Voltage (V): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 tanδ (Max): 0.22 / 0.19 / 0.16 / 0.14 / 0.12 / 0.10 / 0.09 / 0.08 when nominal capacitance is over 1000uF tanδ shall be added 0.02 to the listed value with increase of every 1000 μF
Temperature Stability(120Hz)	Rated voltage (v): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 Impedance Ratio Z-25℃/Z+20℃: 8 / 6 / 4 / 3 / 3 / 3 / 3 / 3 Impedance Ratio Z-40℃/Z+20℃: 4 / 3 / 2 / 2 / 2 / 2 / 2 / 2
Load Life(+105℃)	Time: 5000 hours(φ5~6.3: 3000hrs; φ8~10: 4000hrs). Leakage Current: Not more than the specified value. Capacitance Change: Within ±25% of the initial value. Dissipation Factor: Not more than 200% of the specified value.
Shelf Life(+105℃)	Time: 1000 hours. Leakage Current: Not more than the specified value. Capacitance Change: Within ±20% of the initial value. Dissipation Factor: Not more than 200% of the specified value. After test: Rated voltage to be applied for 30 minutes, 24 to 48 hours before measurement.

■ DIMENSIONS MM



Lead spacing and diameter

ΦD	±0.5			±1.0	
	5	6.3	8	10,12.5	16,18
F±0.5	2.0	2.5	3.5	5.0	7.5
Φd±0.1	0.5		0.6		0.8
a	0~+2.0				

■ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Freq(Hz) / C(μF)	100	1K	10K
0.47~10	0.42	0.60	0.80
22~33	0.55	0.75	0.90
47~330	0.70	0.85	0.95
470~1000	0.75	0.90	0.98
2200~15000	0.80	0.95	1.00

Temperature Coefficient

Temp.(℃)	105	85	≤65
Correction Coefficient	1.0	1.7	2.1

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■ STANDARD RATINGS

WV(V)	6.3			10			16			25		
Cap(μF)	Size	Impedance	Ripple	Size	Impedance	Ripple	Size	Impedance	Ripple	Size	Impedance	Ripple
	ΦDxL(mm)	Z(Ω)	(mA)	ΦDxL(mm)	Z(Ω)	(mA)	ΦDxL(mm)	Z(Ω)	(mA)	ΦDxL(mm)	Z(Ω)	(mA)
33	-	-	-	-	-	-	-	-	-	5X11	0.90	150
47	-	-	-	-	-	-	5X11	0.90	150	5X11	0.90	150
100	5X11	0.90	150	5X11	0.90	150	6.3X11	0.40	250	6.3X11	0.40	250
220	6.3X11	0.40	250	6.3X11	0.40	250	8X11.5	0.25	400	8X11.5	0.25	400
330	6.3X11	0.40	250	8X11.5	0.25	400	8X11.5	0.25	400	10X12.5	0.16	580
470	8X11.5	0.25	400	8X11.5	0.25	400	10X12.5	0.16	580	10X16	0.12	770
1000	10X12.5	0.16	580	10X16	0.12	770	10X20	0.078	1050	12.5X20	0.062	1300
2200	12.5X20	0.062	1300	12.5X20	0.062	1300	12.5X25	0.048	1650	16X25	0.034	1850
3300	12.5X20	0.062	1300	12.5X25	0.048	1650	16X25	0.034	1850	16X31.5	0.029	2000
4700	16X25	0.034	1850	16X25	0.034	1850	16X31.5	0.029	2000	18X35.5	0.025	2200
6800	16X25	0.034	1850	16X31.5	0.029	2000	18X35.5	0.025	2200	-	-	-
10000	16X31.5	0.029	2000	18X35.5	0.025	2200	-	-	-	-	-	-
15000	18X35.5	0.025	2200	-	-	-	-	-	-	-	-	-

WV(V)	35			50			63			100		
Cap(μF)	Size	Impedance	Ripple	Size	Impedance	Ripple	Size	Impedance	Ripple	Size	Impedance	Ripple
	ΦDxL(mm)	Z(Ω)	(mA)	ΦDxL(mm)	Z(Ω)	(mA)	ΦDxL(mm)	Z(Ω)	(mA)	ΦDxL(mm)	Z(Ω)	(mA)
0.47	-	-	-	5X11	5.5	17	-	-	-	5X11	6.0	15
1	-	-	-	5X11	4.0	30	-	-	-	5X11	4.5	20
2.2	-	-	-	5X11	2.5	43	-	-	-	5X11	3.0	30
3.3	-	-	-	5X11	2.2	53	-	-	-	5X11	2.7	40
4.7	-	-	-	5X11	1.9	88	-	-	-	5X11	2.5	65
10	-	-	-	5X11	1.5	100	5X11	2.3	87	6.3X11	1.2	140
22	-	-	-	5X11	0.90	150	6.3X11	1.3	140	8X11.5	0.63	160
33	5X11	0.90	150	6.3X11	0.40	250	6.3X11	1.2	140	10X12.5	0.43	230
47	6.3X11	0.40	250	6.3X11	0.40	250	8X11.5	0.63	210	10X16	0.31	290
100	8X11.5	0.25	400	8X11.5	0.25	400	10X12.5	0.43	300	12.5X20	0.16	430
220	10X12.5	0.16	580	10X16	0.12	770	10X20	0.21	520	16X25	0.073	900
330	10X16	0.12	770	10X20	0.078	1050	12.5X20	0.16	660	16X25	0.073	900
470	10X20	0.078	1050	12.5X20	0.062	1300	12.5X25	0.12	750	-	-	-
1000	12.5X25	0.048	1650	16X25	0.034	1850	16X31.5	0.054	1390	-	-	-
2200	16X31.5	0.029	2000	18X35.5	0.025	2200	-	-	-	-	-	-
3300	18X35.5	0.025	2200	-	-	-	-	-	-	-	-	-

■ Ripple Current: 105℃,100Hz or 120Hz; Impedance: 20℃,100KHz.
The specific capacitance and case size are available on request.