CD267 SERIES

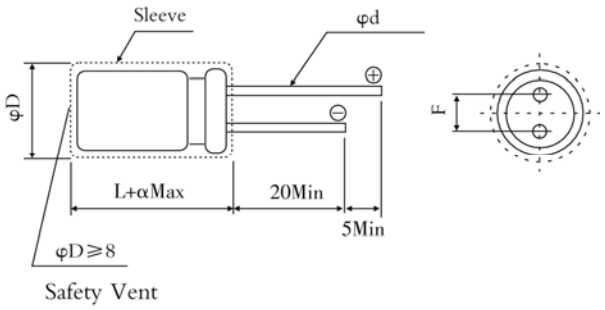
ALUMINUM ELECTROLYTIC CAPACITORS

- Load life of 2000 hours at 105℃
- Body diameter from Φ10mm to Φ18mm with high ripple current
- Expanded rated voltage range
- For switching adapter

■ SPECIFICATIONS

Item	Characteristics
Operating Temperature Range(℃)	-55~+105（6.3~100V）, -40~+105（160~450V）
Rated Voltage Range (V)	6.3~450
Nominal capacitance range (μF)	56~33000
Capacitance Tolerance(20℃, 120Hz)	±20%
Leakage Current (μA) (at 20℃, after 2 minutes)	Rated Voltage(V): 6.3~160V / 200~450V Leakage Current (μA): I≤0.01CV or 3 whichever is greater / I≤0.01CV
Dissipation Factor(20℃,120Hz)	Rated voltage (v): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 / 160~200 / 400 / 420 / 450 tanδ: 0.26 / 0.24 / 0.20 / 0.16 / 0.14 / 0.12 / 0.10 / 0.08 / 0.12 / 0.15 / 0.20 / 0.20 When nominal capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF
Temperature Stability(120Hz)	Rated voltage (v): 6.3 / 10 / 16 / 25 / 35 / 50 / 63 / 100 / 160~200 / 400 / 420~450 Impedance Ratio $Z_{-25℃}/Z_{+20℃}$: 5 / 4 / 3 / 2 / 3 / 6 / 8 Impedance Ratio $Z_{-40℃}/Z_{+20℃}$: 10 / 8 / 6 / 4 / 3 / 4 / 10 / 15
Load Life(+105℃)	Time: 2000hours Leakage current: Not more than the specified value Capacitance change: within±20% of initial value Dissipation: Not more than 200% of the specified value.
Shelf Life (+105℃)	After leaving capacitors under no load for 500hours, they meet the specified value for load life characteristics listed above. After test: Rated voltage to be applied for 30minutes, 24 to 48 hours before measurement.

■ DIMENSIONS MM



Lead spacing and diameter

φD±0.5	5	6.3	8	10	12.5	16	18	20	22	25
F±0.5	2.0	2.5	3.5	5.0		7.5		10.0		12.5
φd±0.1	0.5		0.6			0.8		1.0		
a	1.0		1.5 (L<20); 2.0 (L≥20)							

■ MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

Rated voltage(V) \ Freq(Hz) / Cap(μF)		50	120	300	1k	≥10K
6.3~100	≤470	0.75	1.00	1.35	1.57	2.00
	1000~33000	0.85	1.00	1.10	1.13	1.15
160~450	≤220	0.80	1.00	1.25	1.40	1.60
	330~1000	0.90	1.00	1.10	1.13	1.15

Temperature Coefficient

Temp.(℃) / Rated voltage	+70	+85	+105
6.3~100	2.0	1.7	1.0
160~450	1.8	1.4	1.0

■ STANDARD RATINGS

WV(V)	6.3		10		16		25	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
	ΦDxL(mm)	(mA)	ΦDxL(mm)	(mA)	ΦDxL(mm)	(mA)	ΦDxL(mm)	(mA)
3300	-	-	-	-	-	-	16x25	1400
4700	-	-	-	-	16x25	1480	16x31.5	1710
6800	-	-	16x25	1570	16x35.5	1780	18x35.5	2040
10000	16x25	1650	16x35.5	1890	18x35.5	2060	20x40	2150
15000	16x35.5	2010	18x35.5	2180	20x40	2430	22x50	2750
22000	18x40	2350	20x40	2650	22x50	3000	25x50	3250
33000	22x50	2800	22x50	3250	25x50	3450	-	-

WV(V)	35		50		63		100		160	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
	ΦDxL(mm)	(mA)	ΦDxL(mm)	(mA)	ΦDxL(mm)	(mA)	ΦDxL(mm)	(mA)	ΦDxL(mm)	(mA)
220	-	-	-	-	-	-	-	-	16x35.5	570
330	-	-	-	-	-	-	-	-	18x40	750
470	-	-	-	-	-		16x25	715	22x40	900
1000	-	-	-	-	16x25	930	18x40	985	25x50	1310
2200	16x25	1260	16x35.5	1470	18x35.5	1650	22x50	1750	-	-
3300	16x35.5	1610	18x35.5	1770	20x40	1950	25x50	2070	-	-
4700	18x35.5	1910	20x40	2100	22x50	2450	-	-	-	-
6800	20x40	2150	22x50	2500	25x50	2800	-	-	-	-
10000	22x50	2650	25x50	2850	-	-	-	-	-	-
15000	25x50	3100	-	-	-	-	-	-	-	-

WV(V)	200				400				420				450			
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
	ΦDxL Φ16(mm)	(mA)	ΦDxL Φ18(mm)	(mA)	ΦDxL Φ16(mm)	(mA)	ΦDxL Φ18(mm)	(mA)	ΦDxL Φ16(mm)	(mA)	ΦDxL Φ18(mm)	(mA)	ΦDxL Φ16(mm)	(mA)	ΦDxL Φ18(mm)	(mA)
56	-	-	-	-	-	-	-	-	-	-	-	-	16x31.5	440	-	-
68	-	-	-	-	-	-	-	-	16x31.5	510	-	-	16x35.5	490	-	-
82	-	-	-	-	-	-	-	-	16x35.5	570	-	-	18x31.5	550	18x35.5	600
100	-	-	-	-	16x31.5	580	-	-	16x40	610	18x31.5	610	18x35.5	660	18x40	720
120	-	-	-	-	16x35.5	670	18x31.5	670	-	-	18x35.5	660	-	-	18x40	740
150	-	-	-	-	16x40	770	18x35.5	770	-	-	18x40	710	-	-	18x45	800
180	-	-	-	-	-	-	18x40	880	-	-	-	-	-	-	-	-
220	-	-	-	-	-	-	18x45	1000	-	-	-	-	-	-	-	-
270	16x31.5	870	-	-	-	-	-	-	-	-	-	-	-	-	-	-
330	16x35.5	1010	18x31.5	1010	-	-	-	-	-	-	-	-	-	-	-	-
390	16x40	1130	18x35.5	1130	-	-	-	-	-	-	-	-	-	-	-	-
470	-	-	18x40	1270	-	-	-	-	-	-	-	-	-	-	-	-
560	-	-	18x45	1390	-	-	-	-	-	-	-	-	-	-	-	-

■ Ripple Current(mA rms) at 105℃,120Hz;

The specific capacitance and case size are available on request.

ALUMINUM ELECTROLYTIC CAPACITORS

■ TYPICAL CURVES

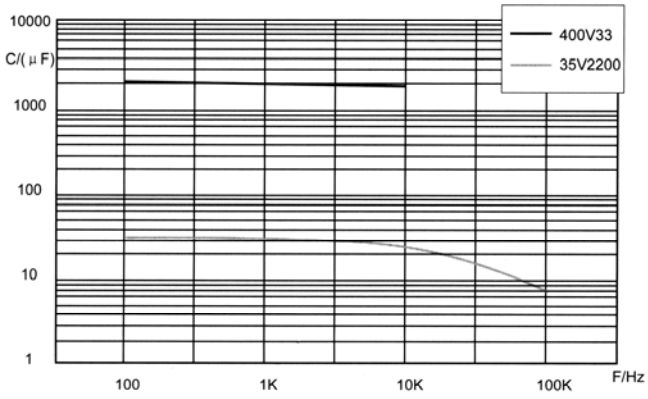


Fig.1 Typical Capacitances as a function of frequency

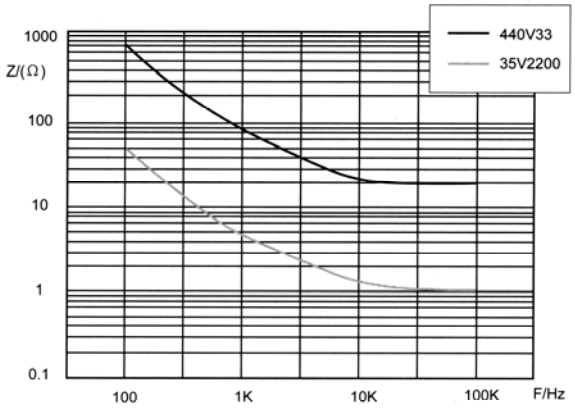
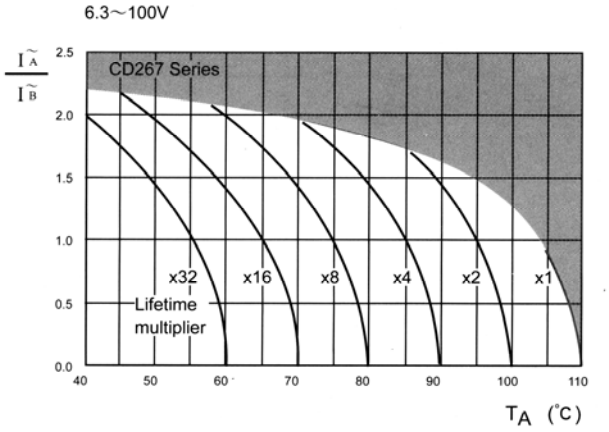
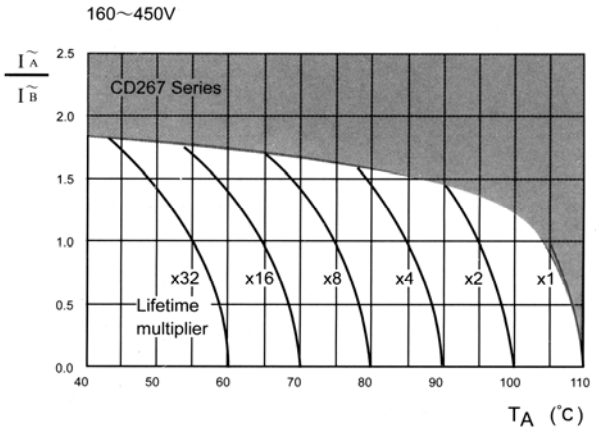


Fig.2 Typical impedance as a function of frequency



IA=actual ripple current at 120Hz
IR=rated ripple current at 120Hz,105°C
Fig.3 Multiplier of useful life as a function of ambient temperature and ripple current load



IA=actual ripple current at 120Hz
IR=rated ripple current at 120Hz,105°C
Fig.4 Multiplier of useful life as a function of ambient temperature and ripple current load