CD264 SERIES

ALUMINUM ELECTROLYTIC CAPACITORS

- Long useful life of 3000 hours at 105℃, equal to 96000 hours (11 years) at 55℃
- Polarized capacitors; Non-solid; Pressure relief
- High rated voltage, up to 450V
- High-reliability and professional applications
- For electronic ballast, lighting, monitors, general industrial use
- Filtering of high voltages in power supplies

■ SPECIFICATIONS

Item	Characteristics	
Operating Temperature Range(℃)	-40~+105	-25~+105
Rated Voltage Range (V)	160~250	350~450
Nominal capacitance range (μF)	1.0~220	
Capacitance Tolerance(20℃, 100Hz)	±20%	
Leakage Current (μA) (at 20℃)	CV≤1000, I≤0.06CV+40μA (1 minute) ; CV>1000, I≤0.03CV+70μA (1 minute) C: Nominal Capacitance (μF), V: Rated Voltage (V)	

Dissipation Factor(20℃,100Hz)

Rated voltage (v)	160	200	250	350	400	450
tanδ	0.12	0.10	0.10	0.15	0.15	0.15

Temperature Stability(100Hz)

Rated voltage (v)	160	200	250	350	400	450
$Z_{-40℃}/Z_{+20℃}$	4	4	4	6	6	6

Load Life(+105℃)

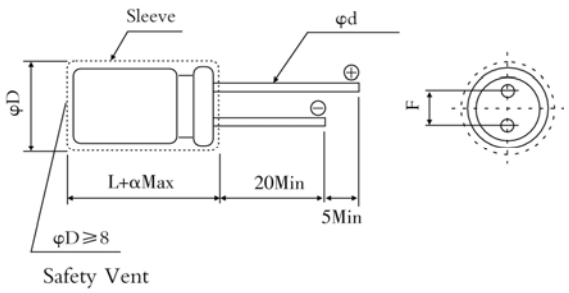
Time	3000hours
Leakage current	Not more than the specified value
Capacitance change	within±20% of initial value
Dissipation Factor	Not more than 300% of the specified value.

Shelf Life (+105℃)

Time	1000hours
Leakage current	Not more than 300% of the specified value
Capacitance change	within±20% of initial value
Dissipation Factor	Not more than 200% of the specified value.

After test: Rated voltage to be applied for 30minutes, 24 to 48 hours before measurement.

■ DIMENSIONS MM



Lead spacing and diameter

φD±0.5	10	12.5	16	18
F±0.5	5.0	5.0	7.5	7.5
φd±0.1	0.6	0.6	0.8	0.8
a	1.5 (L≤16); 2.0 (L>16)			

■ MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

Freq(Hz)	50,60	100	300	1K	≥10K
Factor	0.75	1.00	1.20	1.40	1.50

Temperature Coefficient

Temperature(℃)	+70	+85	+105
Factor	1.8	1.4	1.0

■ STANDARD RATINGS

WV(V)	160				200				250			
Cap(μF)	Size	Z	ESR	Ripple	Size	Z	ESR	Ripple	Size	Z	ESR	Ripple
	ΦDxL(mm)	(Ω)	(Ω)	(mA)	ΦDxL(mm)	(Ω)	(Ω)	(mA)	ΦDxL(mm)	(Ω)	(Ω)	(mA)
4.7	-	-	-	-	10x12.5	13.0	41	60	10x12.5	13.0	41	60
10	10x16	6.3	19	95	10x16	6.3	19	95	10x20	6.3	19	105
22	10x20	3.2	9	145	10x20	3.2	9	145	12.5x25 16x20	3.2	9	180
33	12.5x20	2.3	6	190	12.5x20	2.3	6	190	12.5x25 16x20	2.3	6	250
47	12.5x25 16x20	1.7	4	280	12.5x25 16x20	1.7	4	280	16x25 18x20	1.7	4	300
100	16x25 18x20	1.1	2	380	16x31.5 18x25	1.1	2	400	16x31.5 18x25	1.1	2	410
220	18x35.5	0.7	0.9	630	-	-	-	-	-	-	-	-

WV(V)	350				400				450			
Cap(μF)	Size	Z	ESR	Ripple	Size	Z	ESR	Ripple	Size	Z	ESR	Ripple
	ΦDxL(mm)	(Ω)	(Ω)	(mA)	ΦDxL(mm)	(Ω)	(Ω)	(mA)	ΦDxL(mm)	(Ω)	(Ω)	(mA)
1.0	-	-	-	-	-	-	-	-	10x12.5	94	318	30
2.2	-	-	-	-	10x12.5	33	109	40	10x16	43	145	45
3.3	10x12.5	22	72	50	10x16	22	72	50	10x20	29	96	65
4.7	10x16	16	51	65	10x20	16	51	70	12.5x20	20	68	80
10	12.5x20	7.6	24	120	12.5x20	7.6	24	120	16x20	10	32	140
22	12.5x25 16x20	3.8	11	180	16x25 18x20	3.8	11	200	16x31.5 18x25	4.6	14	225
33	16x25	2.6	7	210	16x31.5 18x25	2.6	7	245	18x35.5	3.4	10	280
47	16x35.5 18x31.5	2.6	5.5	295	18x31.5	2.0	5	310	-	-	-	-

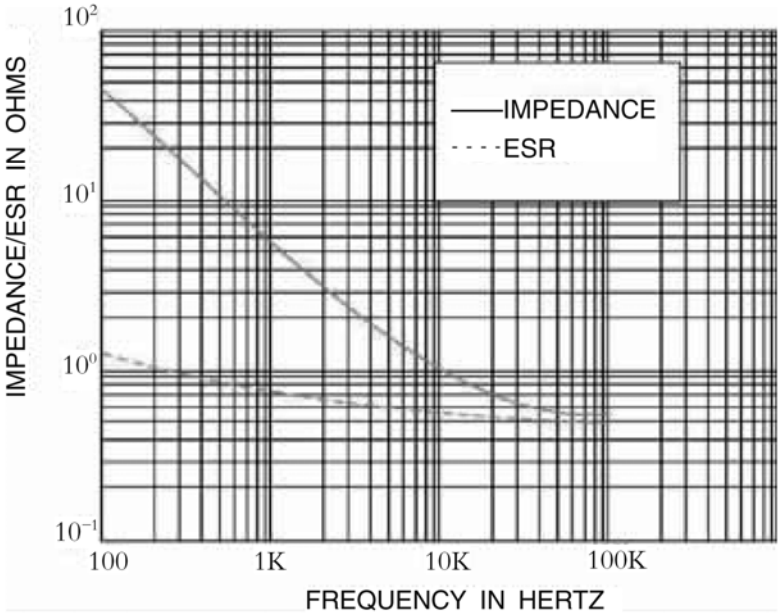
■ Unless otherwise specified, all electrical values apply at T_{amb}+20℃

Ripple Current(mA rms) at 105℃,120Hz; ESR: Equivalent series resistance at 120Hz (calculated from $\tan\delta_{Max}$ and C_R); Z: Max impedance at 10KHz

The specific capacitance and case size are available on request.

■ TYPICAL CURVES

CD264 450V33 μ F 18X35.5



CD264 200V47 μ F 12.5X25