

CD266 SERIES



ALUMINUM ELECTROLYTIC CAPACITORS

- Long useful life of 5000 hours at 105°C
- 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



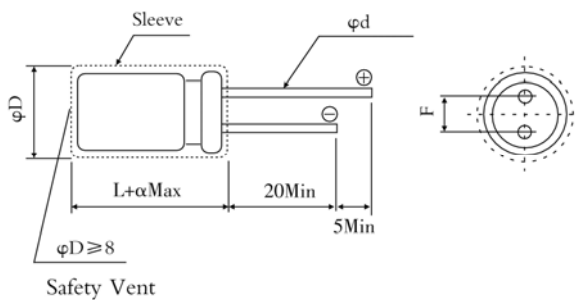
SPECIFICATIONS

Item	Characteristics																																						
Operating Temperature Range(°C)	-40~+105	-25~+105																																					
Rated Voltage Range (V)	160~250	350~450																																					
Nominal capacitance range (µF)	1.0~220																																						
Capacitance Tolerance(20°C, 100Hz)	±20%																																						
Leakage Current (µA) (at 20°C)	CV≤1000, I≤0.02CV+40µA (1 minute) ; CV>1000, I≤0.03CV+70µA (1 minute) C: Nominal Capacitance (µF), V: Rated Voltage (V)																																						
Dissipation Factor(20°C,100Hz)	<table border="1"> <tr> <td>Rated voltage (v)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>tanδ</td> <td>0.12</td> <td>0.12</td> <td>0.12</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> </tr> </table>							Rated voltage (v)	160	200	250	350	400	450	tanδ	0.12	0.12	0.12	0.15	0.15	0.20																		
Rated voltage (v)	160	200	250	350	400	450																																	
tanδ	0.12	0.12	0.12	0.15	0.15	0.20																																	
Temperature Stability(100Hz)	<table border="1"> <tr> <td>Rated voltage (v)</td> <td>160</td> <td>200</td> <td>250</td> <td>Rated voltage (v)</td> <td>350</td> <td>400</td> <td>450</td> </tr> <tr> <td>Z_{-40°C}/Z_{+20°C}</td> <td>4</td> <td>4</td> <td>4</td> <td>Z_{-25°C}/Z_{+20°C}</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table>							Rated voltage (v)	160	200	250	Rated voltage (v)	350	400	450	Z _{-40°C} /Z _{+20°C}	4	4	4	Z _{-25°C} /Z _{+20°C}	6	6	6																
Rated voltage (v)	160	200	250	Rated voltage (v)	350	400	450																																
Z _{-40°C} /Z _{+20°C}	4	4	4	Z _{-25°C} /Z _{+20°C}	6	6	6																																
Load Life(+105°C)	<table border="1"> <tr> <td>Time</td> <td colspan="7">5000hours(Φ10: 4000hours)</td> </tr> <tr> <td>Leakage current</td> <td colspan="7">Not more than the specified value</td> </tr> <tr> <td>Capacitance change</td> <td colspan="7">within±20% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td colspan="7">Not more than 300% of the specified value.</td> </tr> </table>							Time	5000hours(Φ10: 4000hours)							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.						
Time	5000hours(Φ10: 4000hours)																																						
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°C)	<table border="1"> <tr> <td>Time</td> <td colspan="7">1000hours</td> </tr> <tr> <td>Leakage current</td> <td colspan="7">Not more than 300% of the specified value</td> </tr> <tr> <td>Capacitance change</td> <td colspan="7">within±20% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td colspan="7">Not more than 200% of the specified value.</td> </tr> </table> <p>After test: Rated voltage to be applied for 30minutes, 24 to 48 hours before measurement.</p>							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.						
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.																																						

DIMENSIONS

MM

MULTIPLIER FOR RIPPLE CURRENT



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)			

Frequency Coefficient

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

Temperature Coefficient

Temperature(°C)	+70	+85	+105
Factor	1.8	1.4	1.0

■ STANDARD RATINGS

WV(V)	160				200				250			
	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	3.2	9	180
									16x20			
33	12.5x20	2.3	6	190	12.5x20	2.3	6	195	12.5x25	2.3	6	255
									16x20			
47	12.5x25	1.7	4	280	12.5x25	1.7	4	285	16x25	1.7	4	305
	16x20				18x20							
100	16x25	1.1	2	385	16x31.5	1.1	2	420	16x31.5	1.1	2	420
	18x20				18x25							
220	18x35.5	0.7	0.9	640	-	-	-	-	-	-	-	-

WV(V)	350				400				450			
	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	45	10x16	43	145	50
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	3.8	11	180	16x25	3.8	11	205	16x31.5	4.6	14	225
	16x20				18x20							
33	16x25	2.6	7	210	16x31.5	2.6	7	250	18x35.5	3.4	10	285
					18x25							
47	16x35.5	2.0	4.5	305	18x31.5	2.0	5	315	-	-	-	-
	18x31.5											

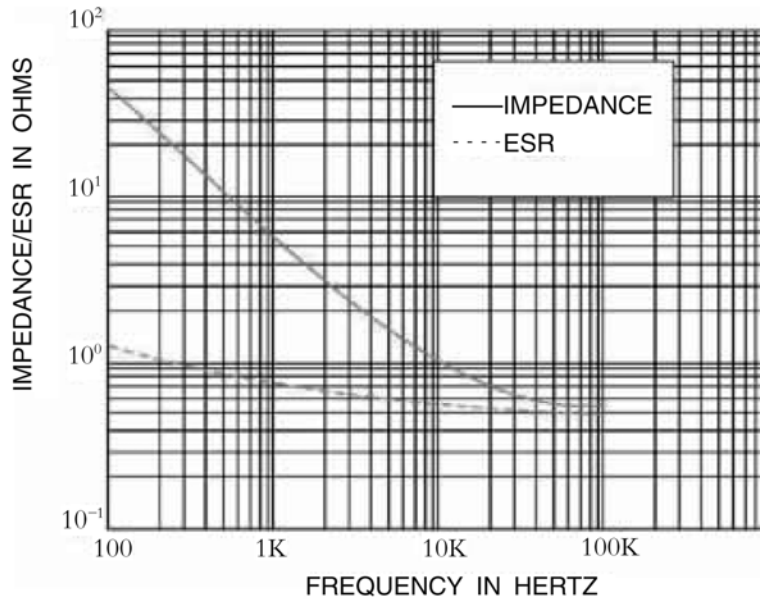
■ Unless otherwise specified, all electrical values apply at $T_{amb}+20^{\circ}\text{C}$

Ripple Current(mA rms) at $105^{\circ}\text{C}, 120\text{Hz}$; ESR: Equivalent series resistance at 120Hz (calculated from \tan^{δ}_{Max} and C_R); Z: Max impedance at 10KHz

The specific capacitance and case size are available on request.

■ TYPICAL CURVES

CD266 450V33 μ F 18X35.5



CD266 200V47 μ F 12.5X25

