

# CD298 SERIES



## ALUMINUM ELECTROLYTIC CAPACITORS



- Load life 5000 hours at 105°C
- Wide temperature, Long life

### ■ SPECIFICATIONS

Item	Characteristics	
Operating Temperature Range(°C)	-40~+105	-25~+105
Rated Voltage Range (V)	10~100	160~450
Nominal capacitance range (μF)	560~56000	68~1800
Capacitance Tolerance(20°C,120Hz)	±20%	
Leakage current (μA)	I ≤ 0.01 CV or 1.5mA whichever is smaller ( at 20°C , after 5 minutes) C: Nominal Capacitance (μF) V: Rated Voltage (V)	
Dissipation Factor(20°C,120Hz)	Rated voltage (v)	10 16 25 35 50 63 80 100 160~250 315~400 450
	tanδ	0.55 0.50 0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.20 0.25
Temperature Stability(120Hz)	Rated voltage (v)	10~100 160~250 315~450
	Impedance Ratio	Z-25°C/+20°C 4 3 8 Z-40°C/+20°C 15 - -
Load Life(+105°C)	Time	5000hours
	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
Shelf Life(+105°C)	Time	500 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 60 minutes, 24 to 48 hours before measurement

### ■ DIMENSIONS

MM

### ■ MULTIPLIER FOR RIPPLE CURRENT

	<b>Frequency coefficient</b>																																		
	<table border="1"> <thead> <tr> <th>Freq(Hz)</th> <th>50,60</th> <th>120</th> <th>500</th> <th>1K</th> <th>10K</th> </tr> </thead> <tbody> <tr> <td>Rated Voltage(V)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10~100</td> <td>0.90</td> <td>1.00</td> <td>1.05</td> <td>1.10</td> <td>1.15</td> </tr> <tr> <td>160~250</td> <td>0.80</td> <td>1.00</td> <td>1.20</td> <td>1.30</td> <td>1.50</td> </tr> <tr> <td>315~450</td> <td>0.80</td> <td>1.00</td> <td>1.20</td> <td>1.25</td> <td>1.40</td> </tr> </tbody> </table>	Freq(Hz)	50,60	120	500	1K	10K	Rated Voltage(V)						10~100	0.90	1.00	1.05	1.10	1.15	160~250	0.80	1.00	1.20	1.30	1.50	315~450	0.80	1.00	1.20	1.25	1.40				
Freq(Hz)	50,60	120	500	1K	10K																														
Rated Voltage(V)																																			
10~100	0.90	1.00	1.05	1.10	1.15																														
160~250	0.80	1.00	1.20	1.30	1.50																														
315~450	0.80	1.00	1.20	1.25	1.40																														

# CD298 SERIES



## ■ STANDARD RATINGS

WV(V)	10		16		25		35		50		63		80		100	
	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple
	μF	(A)	μF	(A)	μF	(A)	μF	(A)	μF	(A)	μF	(A)	μF	(A)	μF	(A)
22x25	8200	1.36	5600	1.44	3900	1.31	2700	1.29	1500	1.21	1000	1.10	820	1.09	560	1.01
22x30	10000	1.65	6800	1.66	4700	1.55	3300	1.54	2200	1.52	15200	1.41	1000	1.29	680	1.19
22x35	12000	1.85	10000	2.08	5600	1.77	3900	1.77	2700	1.77	1800	1.62	1200	1.48	820	1.33
22x40	15000	2.12	12000	2.36	6800	2.02	4700	2.01	3300	2.02	2200	1.85	1500	1.70	1000	1.56
22x45	18000	2.40	15000	3.69	8200	2.27	5600	2.25	3900	2.27	2700	2.10	1800	1.91	1200	1.76
22x50	-	-	-	-	10000	2.56	6800	2.49	-	-	-	-	-	-	1500	2.00
25x25	12000	1.82	8200	1.67	5600	1.56	3900	1.55	2200	1.46	1500	1.38	1200	1.32	820	1.26
25x30	15000	2.11	10000	2.07	6800	1.88	4700	1.87	2700	1.76	1800	1.63	1500	1.74	1000	1.52
25x35	18000	2.32	12000	2.37	8200	2.18	5600	2.18	3900	2.20	2700	2.03	1800	1.86	1200	1.76
25x40	22000	2.59	15000	2.72	10000	2.53	6800	2.45	4700	2.43	3300	2.33	-	-	1500	2.03
25x45	27000	3.01	18000	3.06	12000	2.79	8200	2.80	5600	2.72	3900	2.58	2200	2.22	1800	2.29
25x50	33000	3.43	22000	3.39	-	-	-	-	-	-	-	-	-	-	-	-
30x25	15000	2.14	12000	2.13	8200	1.92	5600	1.80	3300	1.72	2200	1.66	1500	1.58	1000	1.47
30x30	22000	2.73	15000	2.54	10000	2.38	6800	2.28	3900	2.09	2700	2.01	2200	2.02	1200	1.76
30x35	27000	3.13	18000	3.02	12000	2.70	8200	2.69	5600	2.58	3900	2.46	2700	2.50	1800	2.19
30x40	33000	3.53	22000	3.46	15000	3.13	10000	3.04	6800	3.01	4700	2.82	3300	2.69	2200	2.52
30x45	39000	3.78	27000	3.88	18000	3.52	12000	3.38	-	-	5600	3.22	3900	2.94	2700	2.86
30x50	47000	4.58	33000	4.33	22000	3.92	-	-	8200	3.63	-	-	-	-	-	-
35x30	27000	3.05	18000	3.09	12000	2.76	10000	2.78	5600	2.35	3900	2.31	2700	2.18	1800	2.05
35x35	33000	3.49	27000	3.85	18000	3.50	12000	3.30	6800	2.91	4700	2.77	3300	2.60	2200	2.48
35x40	39000	3.96	33000	4.33	22000	3.95	15000	3.88	8200	3.36	5600	3.20	3900	3.00	2700	2.87
35x45	47000	4.60	39000	4.96	-	-	18000	4.40	10000	3.79	6800	3.61	4700	3.44	3300	3.25
35x50	56000	5.06	47000	5.49	27000	4.72	-	-	12000	4.06	8200	3.94	5600	3.72	3900	3.56

WV(V)	160		180		200		250		315		350		400		450	
	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple	Cap	Ripple
	μF	(A)	μF	(A)	μF	(A)	μF	(A)	μF	(A)	μF	(A)	μF	(A)	μF	(A)
22x25	220	0.63	220	0.63	180	0.57	150	0.52	68	0.32	68	0.34	-	-	-	-
22x30	270	0.76	270	0.76	220	0.70	180	0.64	82	0.38	82	0.40	68	0.38	68	0.38
22x35	330	0.90	330	1.90	270	0.83	220	0.76	120	0.48	120	0.52	100	0.46	82	0.44
22x40	470	1.11	390	1.03	330	0.95	270	0.88	150	0.56	150	0.59	120	0.53	100	0.50
22x45	560	1.26	470	1.17	470	1.17	330	1.01	180	0.63	180	0.68	-	-	-	-
22x50	680	1.44	560	1.32	-	-	390	1.13	220	0.72	220	0.78	150	0.63	120	0.58
25x25	330	0.84	270	0.76	270	0.76	180	0.62	100	0.41	100	0.47	82	0.41	-	-
25x30	390	0.97	330	0.90	330	0.92	220	0.76	120	0.49	120	0.53	100	0.48	82	0.45
25x35	470	1.14	390	1.05	390	1.06	270	0.92	180	0.62	150	0.60	120	0.55	100	0.52
25x40	680	1.42	560	1.32	470	1.22	390	1.14	220	0.71	180	0.70	150	0.65	120	0.58
25x45	820	1.63	680	1.51	560	1.39	470	1.29	270	0.81	220	0.82	180	0.72	150	0.66
25x50	-	-	820	1.71	680	1.58	560	1.45	330	0.92	270	0.94	220	0.79	180	0.74
30x25	390	1.00	390	1.02	390	1.02	270	0.85	150	0.51	120	0.53	100	0.48	82	0.46
30x30	470	1.17	470	1.17	470	1.17	330	1.00	180	0.63	180	0.71	120	0.56	120	0.58
30x35	680	1.50	560	1.33	560	1.38	390	1.15	220	0.74	220	0.82	180	0.74	150	0.68
30x40	820	1.66	820	1.74	680	1.61	560	1.48	270	0.85	270	0.93	220	0.85	180	0.77
30x45	1000	1.89	1000	2.01	820	1.85	680	1.71	390	1.04	330	1.05	270	0.98	220	0.88
30x50	1200	2.16	1200	2.25	1000	2.11	820	1.94	470	1.15	390	1.18	330	1.12	270	0.99
35x30	820	1.63	680	1.49	680	1.49	470	1.24	270	0.75	270	0.90	220	0.89	180	0.77
35x35	1000	1.89	820	1.75	820	1.75	560	1.49	330	0.90	330	1.01	270	0.96	220	0.88
35x40	1200	2.23	1000	2.07	1000	2.07	680	1.74	390	1.05	390	1.13	330	1.12	270	1.02
35x45	1500	2.61	1200	2.23	1200	2.38	1000	2.20	470	1.18	470	1.26	390	1.27	330	1.15
35x50	1800	2.97	1500	2.76	1500	2.76	-	-	560	1.34	560	1.39	470	1.33	390	1.28

■ Ripple current: 105°C, 100Hz or 120Hz

The specific capacitance and case size are available on request.

## ■ TYPICAL CURVES

