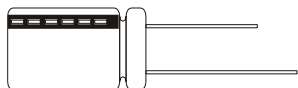


CACB SERIES: Low Impedance, High Temperature**FEATURES**

- ◆ 105°C, 2000 ~ 3000 hours assured
- ◆ Low ESR, suitable for switching power supplies, UPS
- ◆ For ballast use, 3000 ~ 5000 hours assured
- ◆ Smaller size with large permissible ripple current

SPECIFICATIONS

Items	Performance								
Operating Temperature Range	-40°C ~ +105°C								
Rated Voltage Range	160 ~ 450V								
Capacitance Tolerance	±20% (at 120Hz, 20°C)								
Leakage Current (at 20°C)	Time	After 5 minutes							
	Leakage Current	CV≤1000 I=0.03CV(μA)		CV>1000 I=0.02CV(μA)					
		Where, C= rated capacitance in μF. V = rated DC working voltage							
	Dissipation Factor (Tan δ at 120Hz, 20°C)	Rated Voltage	160	200	250	350	400	450	
Tan δ(max)		0.20	0.20	0.20	0.24	0.24	0.24		
When the capacitance exceeds 1000μF, 0.02 shall be added every 1000μF increase.									
Impedance ratio shall not exceed the values given in the table below.									
Low Temperature Characteristics (at 120Hz)	Rated Vo ltage			160	200	250	350	400	45 0
	Impedance	Z(-25°C)/Z(+20°C)		3	3	3	3	5	6
	Ratio	Z(-40°C)/Z(+20°C)		4	4	4	4	6	
Load Life Test	Test Time		2000 hrs for φD≤10 mm 3000 hrs for φD≥ 13 mm						
	Capacitance Change		Within ±20% of initial value						
	Dissipation Factor		Less than 200% of specified value						
	Leakage Current		Within specified value						
	*The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2000/3000 hrs at 105°C								
Shelf Life Test	Test Time		1000 Hrs						
	Capacitance Change		Within ±20% of initial value						
	Dissipation Factor		Less than 200% of specified value						
	Leakage Current		Less than 500% of specified value						
	*The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hrs at 105°C without voltage applied.								
Ripple Current & Frequency Multipliers	Freq.(Hz) Cap(μF)	60 (50)	120	500	1K	10K	100K		
		Under33	0.40	0.55	0.65	0.80	0.90		1.00
	33 to 330	0.60	0.70	0.80	0.90	0.95	1.00		
	390 to 1000	0.65	0.80	0.85	0.98	1.00	1.00		
	1200 up above	0.80	0.90	0.95	0.98	1.00	1.00		
Ripple Current & Temperature Multipliers	Temperature(°C)	65	70	85	95	105			
	Multiplier	1.8	1.65	1.5	1.25	1.00			
Standards	Satisfies Characteristic W of JIS C 5141								

PART NUMBER EXAMPLE

CACB 106 M 2G B 100 200

Code	Lead Forming Type
O	Bulk
T	5mm Chip tape
A	(Φ4~Φ6.3)2.5mm tape
F	(Φ4~Φ8)5mm tape
P	Φ≥Φ8mm original(vertical)tape
M	5mm Lead forming
C	C Lead forming
B	B Lead forming
D	(Φ4~Φ8)2.5mm Lead forming

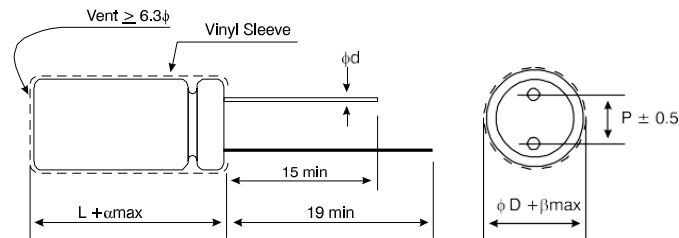
CACB SERIES: Low Impedance, High Temperature



DIMENSIONS AND PERMISSABLE RIPPLE CURRENT

Dimension: ϕ D $\times$ L(mm) Ripple Current: mA/rms at 100K Hz 105°C

VDC		160V (2C)				200V (2D)				250V (2E)			
μ F	Code	ϕ D $\times$ L	Impedance 20°C	Ripple Current		ϕ D $\times$ L	Impedance 20°C	Ripple Current		ϕ D $\times$ L	Impedance 20°C	Ripple Current	
				120Hz	100KHz			120Hz	100KHz			120Hz	100KHz
0.47	R47	6.3 x 11	14.5	9	35	6.3 x 11	14.50	9	35	6.3 x 11	14.50	8	30
1.0	010	6.3 x 11	8.5	13	50	6.3 x 11	8.50	13	50	6.3 x 11	8.50	13	50
2.2	2R2	6.3 x 11	5.5	23	90	6.3 x 11	5.50	19	75	8 x 11.5	5.00	21	85
3.3	3R3	8 x 11.5	4.3	28	110	8 x 11.5	4.30	33	130	10 x 12.5	4.20	30	120
4.7	4R7	8 x 11.5	3.1	33	130	10 x 12.5	3.10	39	155	10 x 16	3.50	41	165
10	100	10 x 16	1.55	63	250	10 x 16	1.55	63	250	10 x 20	3.18	50	200
22	220	10 x 16	1.47	75	300	10 x 20	1.47	75	300	13 x 20	1.74	85	340
33	330	10 x 20	1.15	90	360	13 x 20	1.15	90	360	13 x 25	1.35	115	460
47	470	13 x 25	0.92	125	500	13 x 20	0.92	125	500	13 x 25	1.08	138	550
68	680	13 x 25	0.71	165	660	13 x 25	0.71	165	660	16 x 25	0.84	183	730
100	101	13 x 25	0.59	213	850	16 x 25	0.59	213	850	16 x 31.5	0.70	248	990
150	151	16 x 25	0.41	303	1,200	16 x 31.5	0.41	303	1,210	18 x 31.5	0.49	325	1,300
220	221	16 x 31.5	0.31	368	1,470	18 x 35.5	0.31	408	1,630	18 x 40	0.36	433	1,730
VDC		350V (2V)				400V (2G)				450V (2W)			
μ F	Code	ϕ D $\times$ L	Impedance 20°C	Ripple Current		ϕ D $\times$ L	Impedance 20°C	Ripple Current		ϕ D $\times$ L	Impedance 20°C	Ripple Current	
				120Hz	100KHz			120Hz	100KHz			120Hz	100KHz
0.47	R47	8 x 11.5	3.50	18	70								
1.0	010	10 x 12.5	4.20	30	85	10 x 12.5	4.20	21	85	10 x 12.5	8.80	18	70
2.2	2R2	10 x 16	3.50	49	140	10 x 16	3.50	35	140	10 x 16	6.90	25	100
3.3	3R3	10 x 16	3.50	49	140	10 x 20	2.94	46	183	10 x 20	4.47	31	125
4.7	4R7	10 x 20	2.94	63	180	10 x 20	2.94	46	183	13 x 20	3.77	43	173
10	100	10 x 20	2.94	45	180	10 x 20	2.94	46	183	13 x 25	2.95	69	277
22	220	12.5 x 20	1.60	78	310	13 x 25	1.60	79	314	16 x 25	1.61	128	510
33	330	13 x 25	1.25	105	420	13 x 25	1.25	106	422	16 x 31.5	1.25	155	620
47	470	16 x 25	1.00	140	560	16 x 31.5	1.00	140	560	18 x 31.5	1.01	198	790
68	680	16 x 31.5	0.78	188	750	16 x 31.5	0.75	188	750	18 x 35.5	0.78	248	990
100	101	16 x 31.5	0.65	253	1,010	18 x 31.5	0.65	253	1,010				



LEAD SPACING AND DIAMETER

ϕ D	5	6.3	8	10	12	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ϕ d	0.5		0.6			0.8	
α	1.0			1.5			
β	0.5						