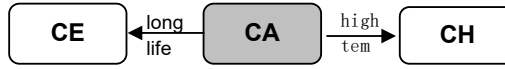


CA Series

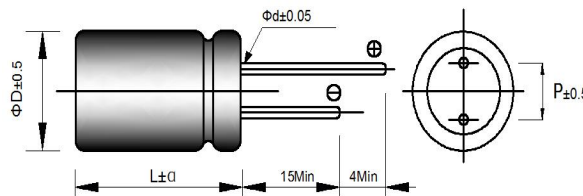
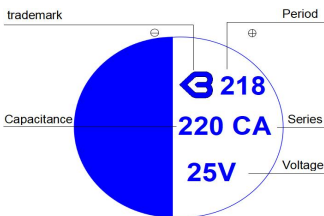
- Low impedance, high ripple current
- Load life of 3000 hours at 105°C
- RoHS Compliant



◆ Specifications

Items	Characteristics		
Category	-55 ~ +105°C		
Temperature Range	-55 ~ +105°C		
Rated Voltage Range	2.5 ~ 63V		
Capacitance tolerance	±20%(M) (at 20°C, 120Hz)		
Leakage Current	I ≤ 0.2CV or 500µA (The bigger) After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value.		
tanδ Dissipation Factor	Rated voltage (V)	2.5~63	(at 20°C, 120Hz)
	tanδ (Max.)	0.12	
Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25°C)/Z(+20°C)	≤ 1.25	(100KHz)
	Z(-55°C)/Z(+20°C)	≤ 1.25	
Endurance	The specifications listed below shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 3000 hours at 105°C.		
	Appearance	No significant damage	
	Capacitance change	≅ ±20% of the initial value	
	D.F.(tanδ)	≅ 150% of the specified value	
	ESR	≅ 150% of the specified value	
Damp Heat (Steady State)	The specifications listed below shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 60°C, 90%~ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≅ ±20% of the initial value	
	D.F.(tanδ)	≅ 150% of the specified value	
	ESR	≅ 150% of the specified value	
(Surge Voltage)	Surge Voltage=Rated voltage * 1.15(V) The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 15~35°C for 30 seconds through a protective resistor (R=1kΩ) and discharge for 5 minutes 30seconds		
	Appearance	No significant damage	
	Capacitance change	≅ ±20% of the initial value	
	D.F.(tanδ)	≅ 150% of the specified value	
	ESR	≅ 150% of the specified value	
Leakage current	≅ The specified value		

◆ Dimensions (mm)



ΦD	5	5.5	6.3	8	10
P	2	2.5	2.5	3.5	5
Φd	0.5	0.5	0.5	0.6	0.6
a	L<16mm: 1.0				
	16 ≤ L<30mm: 2.0				
	L ≥ 30mm: 3.0				

CA Series

◆ **Standard Ratings**

Rated voltage (W.V)	Capacitance (uF)	Size ΦD*L(mm)	ESR(mΩ /100KHz) at 20°C	Rated ripple current (mArms/105°C /100kHz)	Rated voltage (V)	Rated capacitance (uF)	Size ΦD*L (mm)	ESR(mΩ /100KHz) at 20°C	Rated ripple current (mArms/105°C /100kHz)
2.5	560	6.3*8	8	4000	16	470	8*8	12	4500
	680	6.3*8	8	4200		470	8*12	12	5000
	820	6.3*8	8	4500		560	5.5*11	12	4500
	1000	8*8	8	5000		560	6.3*11	12	4600
	1200	8*8	8	5200		560	8*12	12	4800
	1500	10*12	8	5400		680	5.5*14	12	5000
4	560	6.3*8	8	3800		680	6.3*12	12	5000
	680	6.3*8	8	4000		680	8*12	12	5200
	820	8*8	8	4200		820	5.5*16	10	5000
	1000	10*12	8	4500		820	6.3*14	10	5000
6.3	100	5*7	15	2000		820	8*12	10	5000
	220	5*7	15	3000		1000	6.3*14	10	5400
	270	5*7	12	3100		1000	8*12	10	5400
	330	5*7	12	3200		1000	10*12	10	5400
	470	6.3*8	8	4000	100	5*8	30	2000	
	560	6.3*8	8	4500	100	6.3*8	20	3000	
	680	6.3*8	8	5000	220	5*11	20	3100	
	820	6.3*9	8	5200	220	5.5*9	20	3100	
	1000	6.3*11	8	5300	220	6.3*7	20	3100	
	1200	6.3*11	8	5400	330	5.5*12	16	3500	
7.5	1500	8*12	8	5500	330	6.3*11	16	3500	
	2200	10*12	8	5600	330	8*12	16	3800	
	470	5.5*9	8	4200	470	5.5*14	15	4000	
	560	5.5*9	8	4300	470	6.3*12	15	4000	
	680	6.3*9	8	4500	470	8*12	15	4300	
	820	6.3*11	8	4800	560	5.5*16	12	4500	
	1000	6.3*11	8	5000	560	6.3*14	12	4500	
	1200	6.3*13	8	5200	560	8*12	12	4500	
	1500	6.3*15	8	5500	680	5.5*17	12	5200	
	10	47	5*6	30	1600	680	6.3*15	12	5200
100		6.3*8	20	2600	680	8*13	12	5200	
220		6.3*8	18	3200	680	10*12	12	5400	
330		6.3*8	16	3500	820	6.3*16	12	5400	
470		6.3*8	16	3800	820	8*16	12	5400	
560		6.3*9	15	4000	820	10*12	12	5400	
680		6.3*11	12	4500	1000	10*12	12	5500	
820		8*12	10	5000	100	6.3*8	30	2500	
1000		8*12	10	5200	220	6.3*9	25	3100	
12		220	5.5*8	20	3000	330	8*12	25	4000
	330	5.5*9	18	3600	330	10*12	25	4200	
	470	5.5*9	15	4200	470	8*16	18	4500	
	560	5.5*11	12	4500	680	10*16	15	4700	
	560	6.3*9	12	4500	1000	10*20	15	5000	
	680	6.3*11	10	4600	100	8*12	25	3300	
	820	6.3*11	10	4800	220	10*12	20	4100	
	1000	8*12	10	5000	330	10*16	20	4300	
16	100	6.3*8	18	2500	470	8*16	15	4300	
	150	6.3*8	18	2600	560	10*16	15	4500	
	220	5.5*9	18	2400	680	10*16	15	4600	
	220	6.3*8	15	3000	820	10*16	15	4800	
	270	6.3*8	15	3200	1000	10*18	15	5000	
	270	8*8	15	3500	100	8*12	30	3200	
	330	5.5*10	12	3800	150	10*12	20	3500	
	330	6.3*8	12	4000	220	10*16	20	4000	
	470	5.5*10	12	4200	330	10*18	20	4200	
	470	6.3*9	12	4200	470	13*20	18	4500	

◆ **Rated Ripple Current Coefficient**

Frequency(Hz)	120Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz≤f<500kHz
Coefficient	0.05	0.30	0.70	1.00