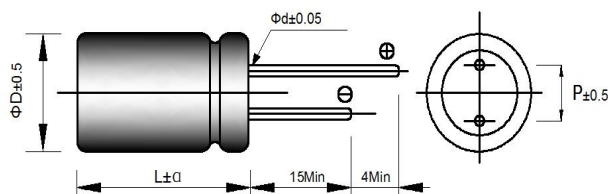
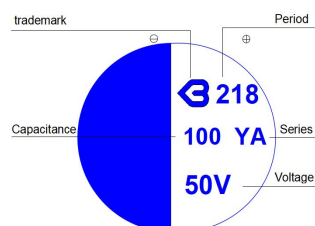


YA Series

- Low ESR ● High Voltage, Long Life. ● 105°C, 5,000~10,000hrs. ● RoHS compliant
- AEC-Q200 qualified

**◆ Specifications**

Items	Characteristics		
Category	-55 ~ +105℃		
Temperature Range			
Rated Voltage Range	16~250V		
Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
Leakage Current	I≤0.01CV or 10μA (The bigger) After 2 minutes applied for rated voltage at 20℃, less than or equal to the specified value.		
tanδ Dissipation Factor	Less than or equal to the specified (at 20℃,120Hz)		
Low Temperture Characteristics (Max.Impedance Ratio)	Z(-55℃)/Z(+20℃)	≒ 0.75 to 1.5	(100KHz)
	Z(+105℃)/Z(+20℃)	≒ 0.75 to 2.0	
Endurance	ΦD=Φ6.3=5,000hrs, ΦD ≧ Φ8=10,000hrs; The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 5,000 to 10,000 hours at 105℃. ΦD=Φ6.3=5,000hrs, ΦD ≧ Φ8=10,000hrs;		
	Appearance	No significant damage	
	Capacitance change	≒ ±30% of the initial value	
	D.F.(tanδ)	≒ 200% of the specified value	
	ESR	≒ 200% of the specified value	
	Leakage current	≒ The specified value	
Damp Heat (Steady State)	The specifications listed below shall be met when the capacitors are restored to 20℃ after the rated voltage is applied for 1000 hours at 60℃, 90% ~ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≒ ±30% of the initial value	
	D.F.(tanδ)	≒ 200% of the specified value	
	ESR	≒ 200% of the specified value	
	Leakage current	≒ 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℃ for 30 seconds through aprotective resistor (R=1kΩ) and discharge for 5 minutes 30seconds		
	Appearance	No significant damage	
	Capacitance change	≒ ±30% of the initial value	
	D.F.(tanδ)	≒ 200% of the specified value	
	ESR	≒ 200% of the specified value	
	Leakage current	≒ The specified value	

◆ Dimensions (mm)

(Unit:mm)

Coated Case	6.3*8	8*12	10*10	10*12
ΦD	6.3	8	10	10
L	L+1.5Max			
Φd	0.5	0.5	0.6	0.6
p	2.5	3.5	5.0	5.0

YA Series

◆ Standard Ratings

Rated voltage (V)	Rated capacitance(μF)	Case size $\Phi\text{D}^*\text{L}(\text{mm})$	Leakage current (μA)	ESR($\text{m}\Omega$) at 20℃, 100 KHz	Rated ripple current ($\text{mA}_{\text{rms}}/105^\circ\text{C}/100\text{kHz}$)	$\tan\delta$ (120Hz)
16	120	6.3*8	19.2	40	1500	0.16
	270	8*10	43.2	26	2000	0.16
	470	10*10	75.2	21	2600	0.16
	560	10*12	89.6	15	3000	0.16
25	68	6.3*8	17.0	45	1400	0.12
	150	8*10	37.5	27	1900	0.12
	270	10*10	67.5	22	2500	0.12
	330	10*10	82.5	20	2500	0.12
35	68	6.3*8	23.8	60	1300	0.10
	100	8*10	35.0	27	2300	0.10
	150	8*10	52.5	27	2300	0.10
	220	10*10	77.0	20	2500	0.10
50	33	6.3*8	16.5	70	1320	0.10
	47	8*10	23.5	45	1800	0.10
	56	8*10	28.0	40	1800	0.10
	100	10*10	50.0	28	2000	0.10
63	10	6.3*8	10.0	100	1000	0.08
	22	8*10	13.9	40	1500	0.08
	33	8*10	20.8	40	1500	0.08
	33	10*10	20.8	30	2100	0.08
	47	10*10	29.6	30	2100	0.08
	56	10*12	35.3	22	2400	0.08
80	22	8*10	17.6	60	1500	0.08
	33	10*10	26.4	50	1800	0.08
	47	10*12	37.6	45	1900	0.08
100	10	10*10	10.0	80	1400	0.08
	12	10*10	12.0	80	1400	0.08
	15	10*12	15.0	60	1600	0.08
160	10	10*10	16.0	100	860	0.08
250	6.8	10*12	17.0	480	400	0.08

◆ Rated Ripple Current Coefficient

Frequency(Hz)	$100\text{Hz} \leq f < 1\text{kHz}$	$1\text{kHz} \leq f < 10\text{kHz}$	$10\text{kHz} \leq f < 100\text{kHz}$	$100\text{kHz} \leq f$
$4.7 < C \leq 33$	0.05	0.32	0.67	1.00
$33 < C$	0.10	0.35	0.70	1.00