

YA Series

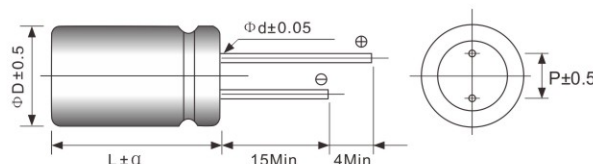
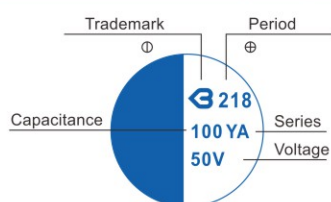
- Low ESR ● High Voltage, Long Life. ● 105°C, 5,000~10,000hrs.
- RoHS compliant ● AEC-Q200 compliant

◆ Specifications



Items	Characteristics		
Category Temperature Range	-55 ~ +105℃		
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.		
tan δ Dissipation Factor	Less than or equal to the specified (at 20℃,120Hz)		
Low Temperature 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.(tan δ)	≒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.(tan δ)	≒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 30 seconds		
	Appearance	No significant damage	
	Capacitance change	≒±30% of the initial value	
	D.F.(tan δ)	≒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

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◆ Standard Ratings

Rated voltage (V)	Rated capacitance (μF)	Case size ΦD×L(mm)	Leakage current (μA)	ESR(mΩ) at 20℃, 100 kHz	Rated ripple current (mA _{rms} /105℃/100kHz)	Tan δ (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	0.12
	100	8*10	35.0	27	2300	0.12
	150	8*10	52.5	27	2300	0.12
	220	10*10	77.0	20	2500	0.12
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)	100Hz≤f<1kHz	1kHz≤f<10kHz	10kHz≤f<100kHz	100kHz
Coefficient	0.05	0.30	0.70	1.00