

YE* Series

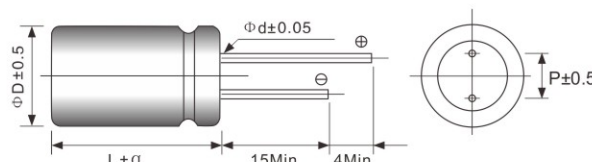
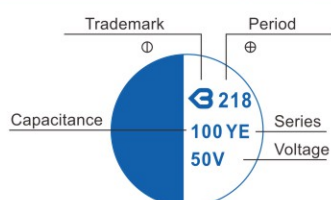
- Low ESR ● 145°C, 2,000hrs. ● RoHS compliant
- AEC-Q200 qualified ● High Voltage, Long Life.

◆ Specifications



Items	Characteristics		
Category Temperture Range	-55 ~ +145℃		
Rated Voltage Range	25~63V		
Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
Leakage Current	I≤0.01CV or 10μA (The larger) 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 Temperture Characteristics (Max.Impedance Ratio)	Z(-55℃)/Z(+20℃)	≒0.75 to 1.5	(100KHz)
	Z(+145℃)/Z(+20℃)	≒0.75 to 2.0	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 2,000 hours at 145℃.		
	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	8*10.2	10*10.2
ΦD	8	10
L	L±1.5Max	
Φd	0.5	0.6
p	3.5	5.0

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◆ Standard Ratings

Rated voltage (V)	Rated capacitance(μ F)	Case size Φ D×L(mm)	Leakage current(μ A)	ESR($m\Omega$) at 20°C, 100 KHz	Rated ripple current(mArms/ 145°C/100kHz)	Tan δ (120Hz)
25	220	8*10.2	55.0	27	700	0.14
	330	10*10.2	82.5	20	900	0.14
35	150	8.0*10.2	52.5	27	700	0.12
	270	10*10.2	94.5	20	900	0.12
50	68	8*10.2	34.0	30	600	0.10
	100	10*10.2	50.0	28	800	0.10
63	33	8*10.2	20.8	40	600	0.08
	56	10*10.2	35.28	30	800	0.08
	82	10*10.2	51.66	30	800	0.08

◆ Rated Ripple Current Coefficient

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