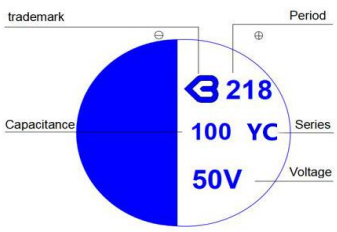
YC* Series

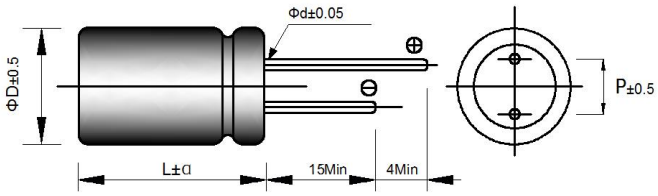
- High reliability hybrid capacitors for automotive equipment electronics
- Endurance with ripple current： 2000~4000 hours at 135℃
- High Voltage：16~250V
- RoHS compliant
- Halogen Free
- AEC-Q200 compliant

◆ Specifications

Items	Characteristics		
Category Temperture Range	-55 ~ +135°C		
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.		
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(+135°C)/Z(+20°C)	≦ 0.75 to 2.0	
Endurence	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 4,000 hours at 135°C.		
	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°C 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 * 1.25(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	10*12.5	10*16.5
ΦD	10	10
L	L±1.5Max	
Φd	0.6	0.6
p	5.0	5.0

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◆ Standard Ratings

Rated voltage (V)	Rated capacitance(μF)	Case size ΦD*L(mm)	Leakage carrent (μA)	ESR(mΩ) at 20℃,100 KHz	Rated ripple current (mArms/135°C/100kHz)	tanδ （120Hz）
25	470	10*12.5	117.5	15	2500	0.14
	560	10*16.5	140.0	12	2900	0.14
35	330	10*12.5	115.5	15	2500	0.12
	470	10*16.5	164.5	12	2900	0.12
50	150	10*12.5	75.0	20	2250	0.10
	220	10*16.5	110.0	15	2600	0.10
63	100	10*12.5	63.0	20	2100	0.08
	150	10*16.5	94.5	15	2400	0.08

◆ Rated Ripple Current Coefficient

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