CY Series

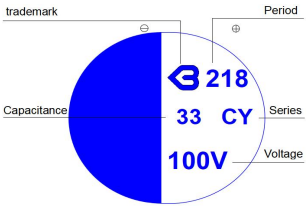
- Low impedance, high ripple current, high voltage, high temperature resistant
- Load life of 3000 hours at 125℃
- RoHS Compliant

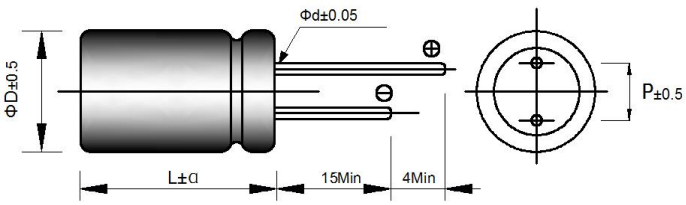
CY ← long life CH

◆ Specifications

Items	Characteristics		
Category Temperture Range	-55 ~ +125℃		
Rated Voltage Range	2.5 ~ 63V		
Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
Leakage Current	I≤0.2CV or 500μA（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(-25℃)/Z(+20℃)	≤1.25	(100KHz)
	Z(-55℃)/Z(+20℃)	≤1.25	
Endurence	The specifications listed below shall be met when thecapacitors are restored to 20°C after the rated voltage is applied for 3000 hours at 125℃.		
	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	
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	≦±20% of the initial value	
	D.F.(tanδ)	≦150% of the specified value	
	ESR	≦150% 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	≦±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
α	L<16mm：1.0				
	16≦L<30mm：2.0				
	L≧30mm：3.0				

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◆ Standard Ratings

Rated voltage (V)	Rated capacitance(uF)	Case size ΦD*L(mm)	tanδ（120Hz）	ESR(mΩ) at 20℃,100 KHz	Rated ripple current (mArms/105℃ /100kHz)	Rated ripple current (mArms/125℃ /100kHz)
16	100	6.3*8	0.12	18	3000	1200
	220	8*12	0.12	16	3200	1300
	470	8*12	0.12	16	3600	1500
	680	8*12	0.12	16	3800	1600
25	100	6.3*8	0.12	18	2500	1000
	220	8*12	0.12	16	2800	1200
	330	8*12	0.12	16	3000	1300
	470	8*12	0.12	16	3500	1400
	560	8*12	0.12	16	3800	1500
	680	10*12	0.12	16	4000	1600
	1000	10*12	0.12	12	4500	1800
35	22	6.3*8	0.12	70	1000	400
	33	6.3*8	0.12	60	1200	500
	47	6.3*8	0.12	60	1500	600
	100	6.3*8	0.12	40	2800	1000
	220	8*12	0.12	30	3000	1200
50	10	6.3*8	0.12	100	1000	400
	22	6.3*8	0.12	80	1800	800
	33	6.3*8	0.12	60	2100	900
	47	6.3*8	0.12	40	2300	1000
	100	8*12	0.12	30	2600	1100
63	22	8*8	0.12	75	1500	500
	33	8*12	0.12	68	1800	600
	82	10*12	0.12	45	2500	830

◆ 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