

YH Series

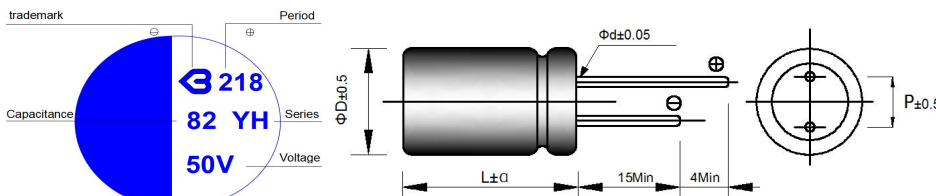
- Low ESR ● High Voltage, Long Life.
- AEC-Q200 qualified
- 135°C, 1,000~3,000hrs.
- RoHS compliant



◆ Specifications

Items	Characteristics		
Category	-55 ~ +135°C		
Temperature Range			
Rated Voltage Range	16~250V		
Capacitance tolerance	±20%(M) (at 20°C, 120Hz)		
Leakage Current	I ≤ 0.01CV or 10μA (The bigger) After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value.		
tanδ Dissipation Factor	(at 20°C, 120Hz)		
Low Temperature Characteristics (Max.Impedance Ratio)	Z(-55°C)/Z(+20°C)	≅ 0.75 to 1.5	(100KHz)
	Z(+125°C)/Z(+20°C)	≅ 0.75 to 2.0	
Endurance	ΦD=Φ6.3=1,000hrs, ΦD=Φ8=2,000hrs, ΦD≧Φ10=3,000hrs; The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 1,000 to 3,000 hours at 135°C. ΦD=Φ6.3=1,000hrs, ΦD=Φ8=2,000hrs, ΦD≧Φ10=3,000hrs;		
	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°C after the rated voltage is applied for 1000 hours at 60°C, 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°C for 30 seconds through a protective 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*11	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(μ F)	Case size Φ D*L(mm)	Leakage current (μ A)	ESR($m\Omega$) at 20°C,100 KHz	Rated ripple current (mA _{rms} /135°C/100kHz)	$\tan\delta$ (120Hz)
16	120	6.3*11	19.2	40	1200	0.16
	270	8*12	43.2	30	2000	0.16
	470	10*12	75.2	25	2500	0.16
25	68	6.3*11	17.0	45	1200	0.16
	150	10*10	37.5	30	2000	0.16
	270	10*12	67.5	25	2500	0.16
35	47	6.3*11	16.5	60	1200	0.16
	100	10*10	35.0	40	2000	0.16
	150	10*12	52.5	30	2500	0.16
50	15	6.3*11	10.0	80	1000	0.16
	33	10*10	16.5	50	1400	0.16
	56	10*12	28.0	35	2300	0.16
63	10	6.3*11	10.0	100	1000	0.16
	22	10*10	13.9	50	1600	0.16
	33	8*12	20.8	50	1500	0.16
	33	10*12	20.8	40	1600	0.16
80	12	10*12	10.0	90	1000	0.16
	15	10*12	12.0	90	1000	0.16
100	10	10*12	10.0	100	1000	0.16
160	6.8	10*12	10.9	150	800	0.16
250	4.7	10*12	11.8	465	800	0.16

◆ 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