

HB Series

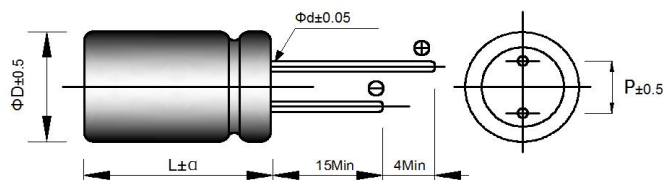
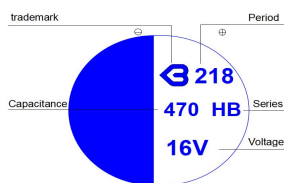
- Low ESR
- High Voltage, Long Life.
- 125°C,2,000~4,000hrs.
- RoHS compliant



◆ Specifications

Items	Characteristics		
Category	-55 ~ +125°C		
Temperature Range	16~125V		
Rated Voltage Range	±20%(M) (at 20°C,120Hz)		
Capacitance tolerance	±20%(M) (at 20°C,120Hz)		
Leakage Current	≤0.05CV or 100μA (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=2,000hrs, ΦD ≧ Φ8=4,000hrs; The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 to 4,000 hours at 125°C. ΦD=Φ6.3=2,000hrs, ΦD ≧ Φ8=4,000hrs;		
	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*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

HB Series**◆ Standard Ratings**

Rated voltage (V)	Rated capacitance(μF)	Case size $\Phi\text{D}^*\text{L}$ (mm)	Leakage current (μA)	ESR($\text{m}\Omega$) at 20°C, 100 KHz	Rated ripple current (mA _{rms} /125°C/100kHz)	$\tan\delta$ (120Hz)
16	100	5*8	16.0	25	800	0.16
	220	6.3*8	35.2	20	1200	0.16
	270	6.3*8	43.2	20	1200	0.16
	330	6.3*9	52.8	25	1200	0.16
	470	8*8	75.2	20	1600	0.16
	560	8*12	89.6	15	2000	0.16
25	100	6.3*8	25.0	25	1500	0.12
	220	8*8	55.0	15	2000	0.12
	330	8*12	82.5	12	2500	0.12
	470	8*12	117.5	12	2800	0.12
35	68	6.3*8	23.8	40	1000	0.12
	100	6.3*8	35.0	25	1000	0.12
	220	8*12	77.0	15	2500	0.12
	330	10*12	115.5	12	3000	0.12
50	33	6.3*8	16.5	50	1000	0.10
	47	6.3*11	23.5	45	1200	0.10
	100	8*12	50.0	20	2000	0.10
	220	10*16	110.0	16	2600	0.10
63	10	6.3*8	10.0	70	1000	0.08
	22	6.3*8	13.9	40	1000	0.08
	33	8*10	20.8	40	1500	0.08
	47	8*12	20.8	30	1600	0.08
	56	8*12	35.3	22	1600	0.08
	100	10*12	63.0	20	2000	0.08
80	22	8*10	17.6	45	1500	0.08
	47	10*12	37.6	30	2000	0.08
	100	10*16	80.0	25	2200	0.08
100	22	8*12	22.0	40	1600	0.08
	47	10*12	47.0	35	2000	0.08
	100	10*16	0.0	35	2200	0.08
160	10	8*12	16.0	80	1000	0.08
250	6.8	10*12	17.0	200	1000	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