

WB Series 85°C Long Life (长寿命)

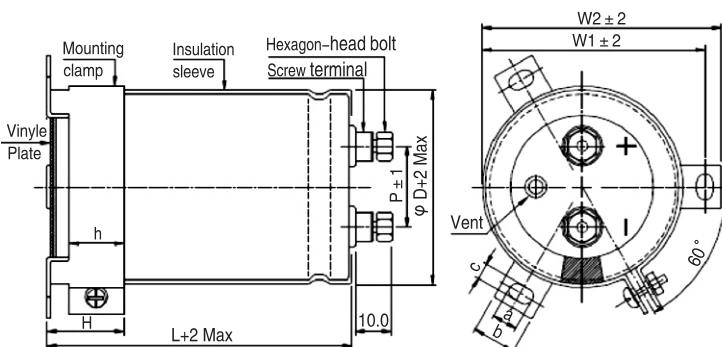
- Long Life, 10000 ~ 12000 hours at 85°C (U_R, I_R applied)
- High Reliability at high Voltage
- RoHS Compliant



SPECIFICATIONS AND CHARACTERISTICS IN BRIEF

Item	Performance Characteristics	
Standard	IEC 60384-4	
Temperature Range	-25°C to +85 (Operating) -40°C to +100°C (Storage)	
Rated Working Voltage Range U_R	350V to 500V	
Surge Voltage U_s	1.10 x U_R	
Nominal Capacitance Range	100 μ F to 15000 μ F	
Capacitance Tolerance	$\pm 20\%$ (120HZ, +20°C)	
Leakage Current I_L	= 0.0065 x C_R x U_R (μ A) or 6mA whichever is the smaller. Note, C_R is in μ F.	Test Condition: U_R , 5mins., 20°C
Characteristics at low Temperature	Max. impedance ratio at 120 Hz	$\frac{U_R (V)}{Z -25^\circ C / Z 20^\circ C}$ 350 ~ 500 8
tan δ	The values shown in the standard ratings tables, at 120HZ, 20°C	
Operational Life Time +85°C, U_R , I_R	Can Diameter 35,51 10000 hrs 64 11000 hrs 76,90 12000 hrs	End of Life Requirement: $\Delta C/C \leq \pm 20\%$ $\tan \delta \leq 2 \times \text{initial } \tan \delta \text{ value}$ $I_L \leq \text{initial specified limit}$
+85°C, U_R	Can Diameter 35 18000 hrs 51,64 20000 hrs 76,90 23000 hrs	
Shelf Life +85°C	After leaving capacitors under no load at 105°C for 1000 hours, Capacitors shall meet specified value for load life characteristics listed above.	
Others	If the capacitors are stored more than 1 year, the Leakage Current may increase. Please apply voltage through about 1 k Ω resistor, if necessary.	

SPECIFICATIONS



Unit:mm								
ΦD	P	W1	W2	H	h	a	b	c
51	22.0	61.0	65.5	21.0	15.0	7.0	12.0	4.5
64	28.6	72.5	78.0	25.0	20.0	7.0	14.0	4.5
77	32.0	85.5	91.0	35.0	20.0	8.0	16.0	4.5
90	32.0	101	106	34.5	20.0	8.0	16.0	5.0

Screw specifications:
Plus hexagon-headed screw: M5 x 0.8 x 10
Max. screw tightening torque: 3.23Nm

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STANDARD RATINGS

Voltage (V)	350			400			450		
	Cap (μF)	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ
1000	51×70	0.15	2.7	51×70	0.15	2.7	51×90	0.15	2.9
1200	51×70	0.15	2.9	51×90	0.15	3.2	51×110	0.15	3.5
1500	51×90	0.15	3.6	51×110	0.15	3.9	51×120	0.15	4.1
1800	51×90	0.15	4.0	51×120	0.15	4.5	64×90	0.15	4.4
2200	51×120	0.15	4.9	64×90	0.15	4.8	64×110	0.15	5.2
2700	64×90	0.15	5.4	64×110	0.15	5.7	64×120	0.15	6.0
3300	64×110	0.15	6.4	64×120	0.15	6.7	64×150	0.15	7.1
3900	64×120	0.15	7.3	64×150	0.15	7.8	64×190	0.15	8.6
4700	64×150	0.15	8.5	64×190	0.15	9.4	76×150	0.15	9.0
5600	76×120	0.15	10.2	76×150	0.15	10.1	90×150	0.15	10.4
6800	76×150	0.15	10.9	90×150	0.15	11.6	90×190	0.15	12.6
8200	90×150	0.15	12.7	90×150	0.15	12.7	90×190	0.15	13.9
10000	90×150	0.15	13.9	90×190	0.15	15.2	90×220	0.15	16.5
12000	90×190	0.15	16.7	90×220	0.15	18.1			
15000	90×220	0.15	20.2						

Maximum Allowable Ripple Current (A rms) at 85°C 120HZ

Case Size ΦD×L(mm)

Voltage (V)	500								
	Cap (μF)	Case Size	tan δ	Ripple Current					
680	51×120	0.20	2.4						
1000	64×110	0.20	3.2						
1500	76×110	0.20	4.4						
2200	76×150	0.20	5.7						
2700	76×190	0.20	6.9						
3300	76×220	0.20	8.8						
4700	90×190	0.20	9.8						
5600	90×220	0.20	11.8						

Maximum Allowable Ripple Current (A rms) at 85°C 120HZ

Case Size ΦD×L(mm)

RIPPLE CURRENT MULTIPLIER

Freq(HZ)	50	120	1K	10K~
Coefficient	0.80	1.00	1.15	1.20

Specifications are subject to change without notice. Should a safety or technical concern arise regarding the product, please be sure to contact our sales offices or agents immediately.