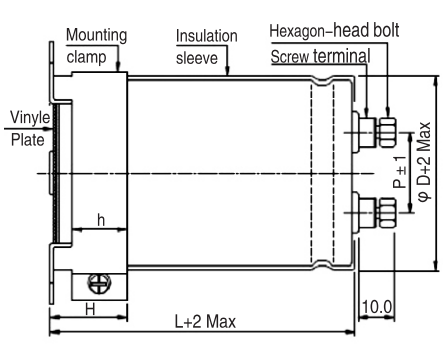
WR Series 85℃ Long Life (超长寿命)

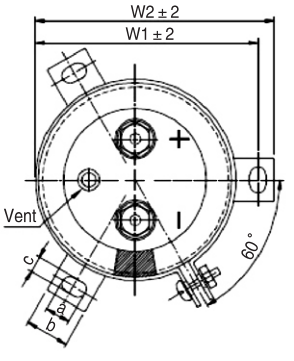
- Long Life,22000～27000 hours at 85℃(U_R,I_R applied)
- High Reliability at high Voltage
- RoHS Compliant

SPECIFICATIONS AND CHARACTERISTICS IN BRIEF

Item	Performance Characteristics		
Standard	IEC 60384-4		
Temperature Range	-25°C to +85°C (Operating) -40°C to +100°C (Storage)		
Rated Working Voltage Range U_R Surge Voltage U_s	250V to 450V 1.10 x U_R		
Nominal Capacitance Range Capacitance Tolerance	100μF to 15000μF ±20%(120HZ，+20℃)		
Leakage Current I_L	= 0.0065 x C_R x U_R (μA) or 6mA whichever. is the smaller. Note, C_R is in μF.	Test Condition: U_R, 5mins., 20°C	
Characteristics at low Temperature	Max. impedance ratio at 120 Hz	U_R (V) Z -25 °C / Z 20 °C	250 ~ 450 8
tan δ	The values shown in the standard ratings tables,at 120HZ,20°C		
Operational Life Time +85°c, U_R , I_R +85°c, U_R	Can Diameter 35 22000 hrs 51 23000 hrs 64 25000 hrs 76,90 27000 hrs Can Diameter 35 38000 hrs 51,64 40000 hrs 76,90 45000 hrs	End of Life Requirement: ΔC/C ≤ ±20% tan δ ≤ 2 x initial tan δ value I_L ≤ initial specified limi	
Shelf Life +85°c	After leaving capacitors under no load at 105℃ 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 kΩ 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 × 0.8 × 10
Max.screw tightening torque:3.23Nm

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STANDARD RATINGS

Voltage (V)	250			350			400		
Cap (μF)	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current
220				35×51	0.20	1.4	35×51	0.20	1.5
330	35×51	0.20	1.5	35×60	0.20	1.8	35×80	0.20	2.0
470	35×60	0.20	1.9	35×80	0.20	2.2	35×100	0.20	2.4
680	35×80	0.20	2.4	35×100	0.20	2.7	51×80	0.20	3.4
1000	35×100	0.20	2.9	51×80	0.20	3.9	51×100	0.20	4.1
1500	51×80	0.20	4.1	51×100	0.20	4.8	64×100	0.20	6.2
2200	51×100	0.20	5.1	64×100	0.20	6.6	64×120	0.20	6.7
3300	64×100	0.20	7.4	64×120	0.20	7.6	76×110	0.20	7.7
4700	64×120	0.20	7.9	76×110	0.20	10.2	76×150	0.20	10.9
6800	76×110	0.20	10.3	76×150	0.20	11.8	76×220	0.20	12.3
10000	76×150	0.20	12.6	76×220	0.20	13.6	90×220	0.20	17.3
12000	76×170	0.20	13.2	90×190	0.20	16.3			
15000	90×140	0.20	15.3	90×220	0.20	19.1			

Maximum Allowable Ripple Current (A rms) at 85℃ **120HZ** Case Size ΦD×L(mm)

Voltage (V)	420			450					
Cap (μF)	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current			
100									
150	35×51	0.20	1.3	35×51	0.25	1.4			
220	35×80	0.20	1.6	35×80	0.25	1.8			
330	35×100	0.20	2.0	35×100	0.25	2.2			
470	51×80	0.20	2.9	51×80	0.25	3.2			
680	51×100	0.20	3.6	51×100	0.25	3.9			
1000	51×120	0.20	4.4	51×120	0.25	4.7			
1500	64×120	0.20	6.2	64×120	0.25	6.5			
2200	76×110	0.20	8.1	76×110	0.25	8.5			
2700	76×120	0.20	8.7	76×120	0.25	8.9			
3300	76×150	0.20	9.8	76×150	0.25	9.9			
4700	90×150	0.20	11.0	90×150	0.25	13.2			
8200	90×220	0.20	16.7	90×220	0.25	17.4			

Maximum Allowable Ripple Current (A rms) at 85℃ **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.