

WH Series 105°C Standard (标准品)

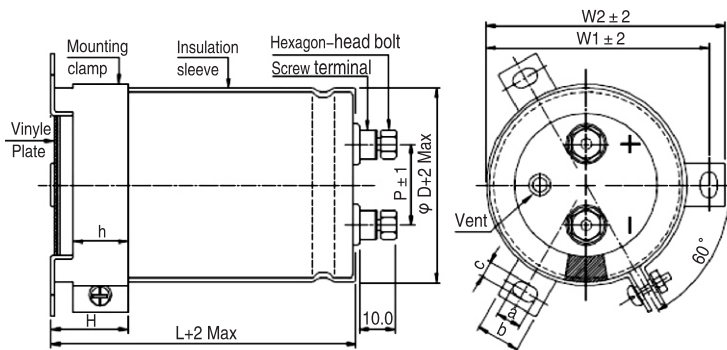


- Long Life, 2000 hours at 105°C (U_R, I_R applied), high rated voltage
- Suitable for use in electronic and industrial equipments such as computer, programming control exchanger for power supplies filtering and energy storing
- RoHS Compliant

SPECIFICATIONS AND CHARACTERISTICS IN BRIEF

Item	Performance Characteristics					
Standard	IEC 60384-4					
Temperature Range	-25°C to +105°C (Operating) -45°C to +105°C (Storage)					
Rated Working Voltage Range U _R	160V to 500V					
Surge Voltage U _s	1.10 x U _R					
Nominal Capacitance Range	270 μF to 27000 μF					
Capacitance Tolerance	±20%(120HZ, +20°C)					
Leakage Current I _L	= 0.025 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	<table border="1"> <tr> <td>U_R (V)</td> <td>160 ~ 500</td> </tr> <tr> <td>Z -25 °C / Z 20 °C</td> <td>8</td> </tr> </table>	U _R (V)	160 ~ 500	Z -25 °C / Z 20 °C	8
U _R (V)	160 ~ 500					
Z -25 °C / Z 20 °C	8					
tan δ	The values shown in the standard ratings tables, at 120HZ, 20°C					
Operational Life Time		End of Life Requirement:				
+105°C, U _R , I _R	2000 hrs	ΔC/C ≤ ±20%				
+105°C, U _R	3800 hrs	tan δ ≤ 2 x initial tan δ value				
		I _L ≤ initial specified limit				
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours, Capacitors shall meet specified value for load life characteristics listed above.					
+105°C						
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 x 0.8 x 10
 Max. screw tightening torque: 3.23Nm

RIPPLE CURRENT MULTIPLIER

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

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STANDARD RATINGS									
Voltage (V)	160			200			250		
	Cap (μF)	Case Size	tan δ	Ripple Current	Case Size	tan δ	Ripple Current	Case Size	tan δ
270							35×50	0.15	0.8
330				35×50	0.15	0.9	35×50	0.15	0.9
390				35×50	0.15	1.0	35×50	0.15	1.0
470				35×50	0.15	1.1	35×50	0.15	1.1
560	35×50	0.15	1.2	35×50	0.15	1.2	35×50	0.15	1.2
680	35×50	0.15	1.3	35×50	0.15	1.3	35×60	0.15	1.4
1000	35×50	0.15	1.6	35×60	0.15	1.7	35×80	0.20	1.6
1200	35×60	0.15	1.9	35×60	0.15	1.9	35×80	0.20	1.8
1500	35×60	0.15	2.1	35×80	0.15	2.3	35×100	0.20	2.1
1800	35×80	0.15	2.5	35×80	0.15	2.5	35×120	0.20	2.5
2200	35×80	0.15	2.8	35×100	0.15	3.0	51×80	0.20	2.9
2700	35×100	0.15	3.3	35×120	0.15	3.6	51×100	0.20	3.6
3300	35×120	0.15	3.8	51×80	0.15	4.1	51×120	0.20	4.2
3900	51×80	0.20	3.8	51×100	0.15	4.9	51×120	0.20	4.6
4700	51×100	0.20	4.6	64×100	0.20	5.3	64×120	0.20	5.7
5600	51×100	0.20	5.1	64×100	0.20	5.8	64×120	0.20	6.3
6800	51×120	0.20	6.1	64×120	0.20	6.9	76×120	0.20	7.7
8200	64×100	0.20	7.0	64×120	0.20	7.6	76×120	0.20	8.4
10000	64×120	0.20	8.4	76×120	0.20	9.3	76×140	0.20	10.0
12000	76×100	0.20	9.4	76×120	0.20	10.2	90×140	0.20	11.9
15000	76×120	0.20	11.4	76×140	0.20	12.2			
18000	76×140	0.20	13.4	90×140	0.25	13.1			
22000	90×140	0.25	14.5						
27000	90×140	0.25	16.0						

Maximum Allowable Ripple Current (A rms) at 105°C 120HZ

Case Size ΦD×L(mm)

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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
470							51×80	0.15	1.4
680							51×80	0.15	1.6
1000				51×80	0.15	2.2	51×80	0.15	1.8
1200	51×80	0.15	2.4	51×80	0.15	2.5			
1500	51×80	0.15	2.8	51×110	0.15	3.0	51×120	0.15	3.5
1800	51×100	0.15	3.2						
2200	51×120	0.15	3.8	64×100	0.15	4.0	64×120	0.15	5.0
2700	64×100	0.15	4.5				76×100	0.15	5.8
3300	64×120	0.15	5.1	64×120	0.15	5.0	76×100	0.15	6.5
3900	76×90	0.15	6.0						
4700	76×110	0.15	7.2	76×120	0.15	7.0	76×130	0.15	8.0
5600	76×130	0.15	8.3	76×140	0.15	8.5	76×160	0.15	9.0
6800	76×140	0.15	9.5	90×130	0.15	10.0	90×150	0.15	10.5
8200	90×140	0.15	11.4				90×190	0.15	13.0
10000							90×190	0.15	14.0
12000							90×220	0.15	15.7
15000							90×250	0.15	18.2

Maximum Allowable Ripple Current (A rms) at 105°C 120HZ

Case Size ΦD×L(mm)

Voltage (V)	500								
	Cap (μF)	Case Size	tan δ	Ripple Current					
330	51×80	0.15	1.1						
470	51×80	0.15	1.3						
680	51×100	0.15	1.8						
1000	51×120	0.15	2.1						
1500	64×120	0.15	3.0						
2200	64×130	0.15	3.7						
2700	64×150	0.15	4.4						
3300	64×170	0.15	5.2						
3900	76×150	0.15	5.8						
4700	90×150	0.15	6.9						
5600	90×150	0.15	7.2						
6800	90×170	0.15	8.3						
8200	90×220	0.15	10.2						
10000	90×250	0.15	12.0						

Maximum Allowable Ripple Current (A rms) at 105°C 120HZ

Case Size ΦD×L(mm)

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.