

WH series

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- High-temperature resistance , high ripple current.
- Load Life:2,000 hours at 150°C.
- Designed for automotive electronic circuits.
- 耐高溫、高紋波。
- 150°C 壽命2,000小時。
- 專為汽車電子迴路設計



SPECIFICATIONS

Items 項 目	Characteristics 特 性							
Capacitance Tolerance 靜電容量誤差	± 20%(120Hz, 20℃)							
Operating Temperature Range 適用溫度範圍	- 40 ~ +150℃							
Rated Voltage Range 額定電壓範圍	16 ~ 100VDC							
Leakage Current 洩漏電流	I≤0.03CV or 4 (μA)which is greater. (After 1 minutes application of DC rated voltage, at 20℃)							
Dissipation Factor 散逸因素(tan δ)								
	Rated Voltage(V)	16	25	35	50	63	80	100
	tanδ(MAX)	0.16	0.14	0.12	0.10	0.10	0.08	0.08
	When nominal capacitance over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF .							
Low Temperature Stability 低溫特性 Impedance Ratio(Max) 阻抗比率(最大值)	Measurement Frequency:120Hz							
	Rated Voltage(V)	16	25	35	50	63	80	100
	Z(-25℃) / Z(20℃)	2	2	2	2	2	2	2
	Z(-40℃) / Z(20℃)	4	4	4	4	4	4	4
Load Life 負荷壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 2,000 hours (ΦD≤12.5:1,000 hours)at 150℃.							
	Capacitance Change	within ±30% of Initial Value						
	tan δ	300% or less of Initial Specified Value						
	Leakage Current	Initial Specified Value or less						
Shelf Life 放置壽命	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000hours 150℃ without voltage applied. Before the measurement. The Capacitance shall be preconditioned by applying voltage according to them 4.1 of JIS C 5101-4.							
	Capacitance Change				within ±25% of Initial Value			
	tan δ				300% or less of Initial Specified Value			
	Leakage Current				Initial Specified Value or less			
Standards 參照標準	IEC 60384-4(JIS C 5101-4)							

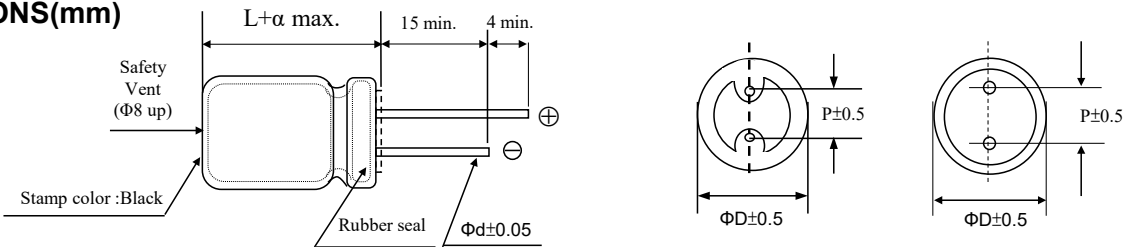
Frequency Coefficient of Permissible Ripple Current

Capacitance * working voltage (C*V)	Frequency (Hz)			
	120	1k	10k	100k
1000 $\leq$ CV	0.67	0.91	1.00	1.00
1000>CV	0.50	0.83	1.00	1.00

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DIMENSIONS(mm)



ΦD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
Φd	0.6	0.6	0.8	0.8

α	(L < 20) 1.5
	(L ≥ 20) 2.0

STANDARD RATINGS

DxL(mm), R.C.(mA rms) at 150°C 100kHz.

Cap (μF)	V	16		25		35		50		63	
		D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.	D x L	R.C.
10						10x12.5	175				
22						10x12.5	200				
33						10x12.5	225				
47						10x12.5	250				
56										10x12.5	430
68										10x16	560
100				10x12.5	250	10x20	400	10x12.5	380	10x20	710
220		10x16	300	12.5x20	500	12.5x25	600	10x20	640	12.5x25	1040
330		10x20	400	12.5x25	600	16x25	800	12.5x20	770	12.5x32	1170
470		12.5x20	600	16x25	800	16x32	1000	12.5x25	960	16x25	1280
560								12.5x32	1080	16x32	1520
680								16x25	1190	16x36	1520
1,000		16x25	800	16x32	1000	18x40	1300	16x32	1420		
2,200		16x36	1200								
3,300		18x40	1300								

Cap (μF)	V	80		100	
		D x L	R.C.	D x L	R.C.
22				10x12.5	390
33		10x12.5	420	10x16	510
47		10x16	550	10x20	640
56		10x20	690	10x20	640
68		10x20	690	12.5x20	760
100		12.5x20	820	12.5x25	950
220		16x25	1250	16x32	1380
330		16x32	1480	18x32	1430
470		18x32	1530		