

WH Series

105°C Low impedance

105°C 低內阻

Suit for use in high quality switching power supplies and high frequency circuit

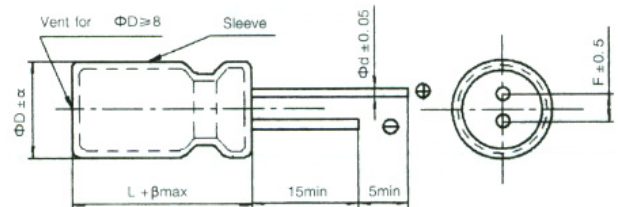
適用於高品質開關電源及高頻電路

Specifications

Items 項目	Characteristics 特性														
Operating Temperature Range 使用溫度範圍	-40 to +105°C														
Rated Voltage Range 額定電壓範圍	6.3 to 50VDC														
Capacitance Tolerance 靜電容量容許差	±20% (M) (at 25°C, 120Hz)														
Leakage Current 漏電流	I=0.01CV or 3 μA, whichever is greater (at 25°C, after 2 minutes) Where, I: Leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V)														
Dissipation Factor (tan δ) 損失角正切(tan δ)	<table border="1"> <thead> <tr> <th>Rated voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>DF(tan δ)</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </tbody> </table> <p>When the capacitance exceeds 1000 μF, 0.02 shall be added every 1000 μF increase. (at 25°C, 120Hz)</p>	Rated voltage (V)	6.3	10	16	25	35	50	DF(tan δ)	0.22	0.19	0.16	0.14	0.12	0.10
Rated voltage (V)	6.3	10	16	25	35	50									
DF(tan δ)	0.22	0.19	0.16	0.14	0.12	0.10									
Load Life 高溫負荷特性	The following specifications shall be satisfied when the capacitors are restored to 25°C after the rated voltage is applied for 2000 hours at 105°C Capacitance change ≤ ±20% of the initial value DF(tan δ) ≤ 200% of the initial specified value Leakage current ≤ The initial specified value														
Shelf Life 高溫貯存特性	The following specifications shall be satisfied when the capacitors are restored to 25°C after exposing them for 1000 hours 105°C without voltage applied. the rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤ ±20% of the initial value DF(tan δ) ≤ 200% of the initial specified value Leakage current ≤ The initial specified value														

Pitch Dimension (mm)

DΦ	5	6.3	8	10	12	13	16	18	
F	2.0	2.5	3.5	5	5	5	7.5	7.5	10
d	0.50	0.5	0.50	0.6	0.6	0.6	0.8		
α	0.5								
β	+1.5-0.5								



WH Series

Standard Ratings

VDC	6.3			10			16		
Item μF	Case size	Imp (Ω)	Ripple (mA)	Case size	Imp (Ω)	Ripple (mA)	Case size	Imp (Ω)	Ripple (mA)
	D*L	25°C 100Khz	105°C 100Khz	D*L	25°C 100Khz	105°C 100Khz	D*L	25°C 100Khz	105°C 100Khz
47									
56									
68									
82									
100							8*12		220
220	8*12	0.61	285	8*12	0.68	370	8*12	0.33	410
330	8*12	0.4	410	8*12	0.33	470	8*12	0.23	600
470	8*14	0.28	550	8*14	0.24	590	10*15	0.18	750
680	8*16	0.2	735	8*16	0.17	790	10*15	0.13	1050
820							10*20	0.11	1150
1000	10*17	0.15	950	10*20	0.1	1060	10*20	0.095	1440
1500	10*20	0.11	1200	10*25	0.09	1450	10*25	0.072	1650
2200	13*21	0.087	1450	13*26	0.068	1900	13*26	0.058	2000
3300	13*21	0.068	1700	13*26	0.053	2110	13*26	0.047	2400
3900	13*26	0.062	1850	13*26	0.049	2250	16*26	0.044	2550
4700	13*26	0.056	2110	13*30	0.046	2450	16*32	0.041	2650
6800	13*26	0.048	2350	16*32	0.04	2680	16*35	0.037	2900

VDC	25			35			50		
Item μF	Case size	Imp (Ω)	Ripple(mA)	Case size	Imp (Ω)	Ripple(mA)	Case size	Imp (Ω)	Ripple(mA)
	D*L	25°C 100Khz	105°C 100Khz	D*L	25°C 100Khz	105°C 100Khz	D*L	25°C 100Khz	105°C 100Khz
47							8*12	1.0	380
68							8*12	0.31	400
100	8*12	0.49	300	8*12	0.32	460	8*12	0.25	635
220	8*12	0.23	630	8*16	0.17	800	10*17	0.11	750
330	10*15	0.17	800	10*17	0.12	1060	10*20	0.084	1300
470	10*17	0.13	1050	10*20	0.093	1420	13*21	0.066	1500
680	10*25	0.093	1400	13*21	0.072	1650	13*26	0.054	1850
1000	13*21	0.072	1650	13*26	0.058	2000	16*26	0.08	2120
1500	13*26	0.058	1950	13*26	0.048	2350	16*32	0.04	2420
2200	13*30	0.048	2360	16*32	0.05	2700	18*36	0.035	2800
3300	16*32	0.041	2700	18*36	0.035	3050			
3900	16*35	0.038	2840						
4700	18*36	0.036	3000						