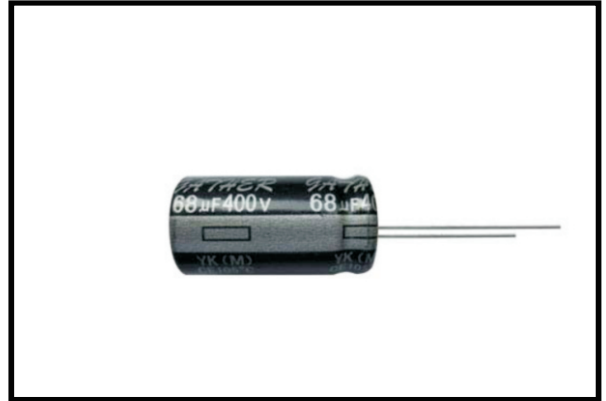


YK 系列
SERIES

适用于开关电源
For switch-power supply systems

◆ 特 长 FEATURES

- 具有非常优越的耐纹波能力
Very excellent ripple current ability
- 保证时间：105°C 3000小时
Load life: 105°C 3000Hrs



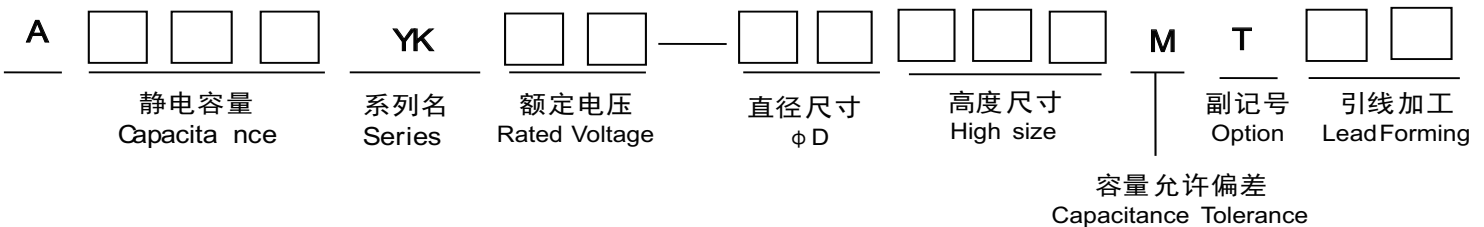
◆ 特性表 SPECIFICATIONS

项 目 Item	特 性 Characteristics												
使用温度范围 Operating Temperature Range	-40 ~ +105°C												
额定电压范围 Rated Voltage Range (W V)	200Vdc ~ 250Vdc												
静电容量允许偏差 Capacitance Tolerance	± 20% (M) (at 20°C, 120Hz)												
漏电流 (I) DC Leakage Current	$I \leq 0.03CV + 10 (\mu A)$ (at 20°C) (施加额定电压2分钟后测试 After 2 minutes application of rated voltage)												
损耗角正切值 (TANδ) Dissipation Factor	<table border="1"> <tr> <td>wv</td> <td>200</td> <td>250</td> <td>400</td> <td>450</td> <td>500</td> </tr> <tr> <td>TANδ</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> </tr> </table> 容量超过1000µF, 每增加1000µF, TANδ加0.02 When rated capacitance is over 1000µF, TANδ shall be added 0.02 (at 20°C, 120Hz)	wv	200	250	400	450	500	TANδ	0.15	0.15	0.15	0.15	0.20
wv	200	250	400	450	500								
TANδ	0.15	0.15	0.15	0.15	0.20								
温度特性 Temperature Characteristics	阻抗比 (120Hz) Impedance ratio at 120Hz: 200-250V.DC, Z-40°C / Z20°C = 4MAX. 400-500V.DC, Z-25°C / Z20°C = 6 MAX.												
高温负荷特性 Load Life	105°C加额定电压3000小时后满足如下要求: (φ 6.3:2000HRS; ≥ φ 8:3000HRS) After 3000 hours application of rated voltage at 105°C <table border="1"> <tr> <td>静电容量变化率 Capacitance Change</td> <td>初期值的±25%以内 Within ±25% of the initial value</td> </tr> <tr> <td>损耗角正切值 (TANδ) Dissipation Factor</td> <td>规格值的200%以内 Not more than 200% of the specified value</td> </tr> <tr> <td>漏电流 (I) Leakage Current</td> <td>规格值以下 Not more than the specified value</td> </tr> </table>	静电容量变化率 Capacitance Change	初期值的±25%以内 Within ±25% of the initial value	损耗角正切值 (TANδ) Dissipation Factor	规格值的200%以内 Not more than 200% of the specified value	漏电流 (I) Leakage Current	规格值以下 Not more than the specified value						
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损耗角正切值 (TANδ) Dissipation Factor	规格值的200%以内 Not more than 200% of the specified value												
漏电流 (I) Leakage Current	规格值以下 Not more than the specified value												
高温无负荷特性 Shelf Life	+105°C 1000小时无负荷放置后, 特性应满足高温负荷特性 After storage for 1000 Hrs at +105°C with no voltage applied, the capacitor shall meet the specified limits for "Load Life"												
其他 Others	执行 JIS C 5141 JIS C 5141												

◆ 纹波电流修正系数/MULTIPLIERFORRIPPLECURRENT

频率 (Hz) Frequency	50 (60)	120	1k	10k	100k≤	
系数Coefficient	1~4.7µF	0.40	0.50	0.60	0.90	1.00
	≥4.7µF	0.50	0.60	0.80	0.90	1.00

◆ 产品型号体系/PARTNUMBER



◆ 尺寸图/DIMENSIONS

(mm)

ϕD	6.3	8	10	12.5	16	18	20	22
ϕd	0.5	0.6			0.8			
F	2.5	3.5	5.0		7.5		10	
α	100V以下		WV \leq 100:1.5		160V以上		WV \geq 160:2.0	
							2.0	

◆ 标准品一览表/STANDARD SIZE

额定电压 Rated Voltage (V. DC)	静电容量 Capacitance (μF)	外形尺寸 Size $\Phi D \times L$	额定纹波电流 Rated Ripple Current (mA r. m. s. /10 5°C. 100KHz)
200 (2D)	4.7 (4R7)	6.3 \times 11	98
		8 \times 12	124
	6.8 (6R8)	8 \times 12	129
		10 \times 11	180
	10 (100)	8 \times 12	129
		10 \times 12.5	170
	15 (150)	10 \times 16	240
		8 \times 14	167
	22 (220)	10 \times 12.5	214
		10 \times 16	240
	33 (330)	10 \times 16	240
		10 \times 20	280
	47 (470)	10 \times 16	240
		10 \times 20	280
	68 (680)	13 \times 17	320
		10 \times 20	280
	100 (101)	13 \times 20	440
		13 \times 30	790
	150 (151)	16 \times 25	510
		18 \times 20	750
220 (221)	16 \times 30	930	
	18 \times 25	1120	
330 (331)	18 \times 30	1210	
	18 \times 32	1300	
470 (471)	22 \times 30	1720	
	22 \times 35	2100	
		22 \times 40	2400

额定电压 Rated Voltage (V. DC)	静电容量 Capacitance (μF)	外形尺寸 Size $\Phi D \times L$	额定纹波电流 Rated Ripple Current (mA r. m. s. /10 5°C. 100KHz)
250 (2E)	1 (010)	6.3 \times 11	60
	2.2 (2R2)	6.3 \times 11	72
		8 \times 12	120
	3.3 (3R3)	6.3 \times 11	84
		8 \times 12	124
	4.7 (4R7)	6.3 \times 11	98
		8 \times 12	124
	6.8 (6R8)	8 \times 12	129
		10 \times 12.5	171
	10 (100)	10 \times 16	240
		10 \times 12.5	171
	15 (150)	10 \times 16	240
		10 \times 20	280
	22 (220)	10 \times 16	268
		10 \times 20	280
	33 (330)	10 \times 20	280
		47 (470)	13 \times 20
	68 (680)	16 \times 20	600
18 \times 18		720	
82 (820)	16 \times 20	600	
100 (101)	16 \times 25	510	
	18 \times 20	750	
150 (151)	18 \times 25	1120	
220 (221)	18 \times 40	1500	

◆ 标准品一览表/STANDARD SIZE

额定电压 Rated Voltage (V. DC)	静电容量 Capacitance (μ F)	外形尺寸 Size Φ D×L	额定纹波电流 Rated Ripple Current (mA r. m. s. /10 5°C. 100KHz)			
400 (2G)	1 (010)	6.3×11	48			
		8×12	56			
	2.2 (2R2)	6.3×11	50			
		8×9	72			
	3.3 (3R3)	8×12	80			
		6.3×11	50			
		8×9	72			
	8×12	94	4.7 (4R7)	6.3×15	120	
		8×9		75		
		8×12		94		
	10×12.5	122				
	6.8 (6R8)	8×12	94	8.2 (8R2)	8×14	105
		8×14	105		10×12.5	130
		10×11	120		10 (100)	8×16
	10×12.5	130	10×12.5	130		
	10× (15) 16	160	12 (120)	8×16	120	
		10×12.5		130	10× (15) 16	160
	15 (150)	10×16	160	15 (150)	8×14	105
		10×20	220		10×12.5	130
		13×17	280		10× (15) 16	160
	22 (220)	10×25	450	22 (220)	8×16	120
		13×17	280		10×12.5	130
		13×20	450		10× (15) 16	160
	33 (330)	13×20	450	33 (330)	13×20	450
		13×25	480		13×25	480
		16×18	500		16×18	500
	16×20	550	47 (470)	16×20	550	
		13×25		500	16×25	740
		16×20		550	18×18	740
	18×18	740	56 (560)	16×25	740	
		18×20		780	18×20	780
	68 (680)	16×25	740	68 (680)	16×25	740
		16×30	960		18×25	980
		18×25	980		16×30	960
	82 (820)	18×25	980	82 (820)	18×25	980
		18×30	1000		18×30	1000
		16×33	980		18×30	1000
	100 (101)	18×25	980	100 (101)	18×25	980
		18×30	1000		18×30	1000

额定电压 Rated Voltage (V. DC)	静电容量 Capacitance (μ F)	外形尺寸 Size Φ D×L	额定纹波电流 Rated Ripple Current (mA r. m. s. /10 5°C. 100KHz)			
400 (2G)	120 (121)	16×35	1040			
		18×30	1160			
		18×35	1340			
	150 (151)	18×35	1380			
	180 (181)	18×40	1540			
	220 (221)	18×45	1760			
450 (2W)	1 (010)	8×12	80			
		2.2 (2R2)	8×12	80		
	3.3 (3R3)	8×12	94			
		10×12.5	122			
	4.7 (4R7)	8×14	105			
		10×12.5	130			
	6.8 (6R8)	10×16	160			
		10 (100)	10×20	220		
	13×17	280	15 (150)	13×20	450	
		16×18		500		
	22 (220)	13×20	450	22 (220)	13×20	450
		13×25	480		13×25	480
	33 (330)	16×25	740	33 (330)	16×25	740
		18×20	780		18×20	780
	47 (470)	16×30	960	47 (470)	16×30	960
		18×25	980		18×25	980
	68 (680)	18×25	980	68 (680)	18×25	980
		18×30	1000		18×30	1000
	82 (820)	18×30	1000	82 (820)	18×30	1000
		100 (101)	18×35		1380	100 (101)
	20×30	1400	120 (121)	18×40	1500	
		22×30		1580		
150 (151)	18×45	1760	150 (151)	18×45	1760	
	22×35	1800		22×35	1800	
500 (2H)	1 (010)	10×125	80			
		2.2 (2R2)	10×125	80		
	3.3 (3R3)	10×16	120			
		4.7 (4R7)	10×20	160		
	13×17	180	6.8 (6R8)	10×20	160	
		13×17		180	13×17	180
	10 (100)	13×20	240	10 (100)	13×20	240
		15 (150)	13×20		240	15 (150)
	22 (220)	16×25	340	22 (220)	16×25	340
		16×30	360		16×30	360
	18×25	360	33 (330)	18×25	360	
		18×30		440	18×30	440