

# GK 105°C, 低阻抗品

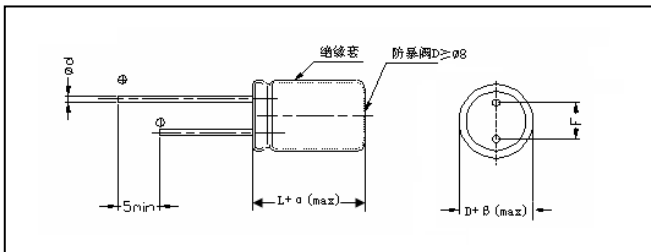
- 105°C 2000~5000 小时寿命 Load life of 2000~5000 hours at 105°C
- 高频率低阻抗、高纹波电流 Enabled high ripple current by a reduction of impedance at high frequency range.
- 适用于电脑主机板的超低阻抗 Lowest impedance for personal computer and storage equipment.
- ROHS 指令已对应完毕。Adapted to the ROHS directive.

## 主要技术性能 Specifications

项目 Items	特性 Performance Characteristics																											
使用温度范围 Operating temperature range	-55 ~ +105°C																											
额定电压范围 Rated voltage range	6.3 ~ 100V																											
标称电容量范围 Nominal capacitance range	4.7~6800μF																											
标称电容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20°C)																											
漏电流 Leakage current	$I \leq 0.01CV$ (μA) 或 $3\mu A$ 2 分钟 取较大者 (at 20°C, after 2 minutes, Whichever is greater)																											
损耗角正切值 (tg δ) Dissipation factor (+20°C, 120Hz)	<table border="1"> <thead> <tr> <th>U<sub>R</sub> (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tg 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> <td>0.10</td> <td>0.10</td> </tr> </tbody> </table> <p>容量大于 1000μF 者, 每增加 1000μF, 其损耗角正切值增加 0.02 When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase.</p>	U <sub>R</sub> (V)	6.3	10	16	25	35	50	63	100	tg δ	0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.10									
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耐久性 Load life	<p>持续时间 Duration:</p> <table border="1"> <thead> <tr> <th>ΦD</th> <th>5~6.3</th> <th>8</th> <th>10</th> <th>12.5~</th> </tr> </thead> <tbody> <tr> <td>Load life</td> <td>2000h</td> <td>3000h</td> <td>4000h</td> <td>5000h</td> </tr> </tbody> </table> <p>+105°C 加额定电压, 恢复 16 小时后: After applying rated voltage at +105°C and then resumed for 16 hours: 电容量变化率 Capacitance change : ±25% 初始测量值以内 ±25% of the initial measured value 漏 电 流 Leakage current : ≤ 初始规定值 ≤ the initial specified value 损耗角正切值 Dissipation factor : ≤ 2 倍初始规定值 ≤ 2 times of the initial specified value</p>	ΦD	5~6.3	8	10	12.5~	Load life	2000h	3000h	4000h	5000h																	
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高温贮存 Shelf life	<p>+105°C, 1000 小时贮存后, 恢复 16 小时后: After storage for 1000 hours at +105°C and then resumed for 16 hours 电容量变化率 Capacitance change : ±25% 初始测量值以内 ±25% of the initial measured value 漏 电 流 Leakage current : ≤ 2 倍初始规定值 ≤ 2 times of the initial specified value 损耗角正切值 Dissipation factor : ≤ 2 倍初始规定值 ≤ 2 times of the initial specified value</p>																											

## 外形图及尺寸表 Case

单位 Unit: mm



D	5	6.3	8	10	12.5	16	
F	2.0	2.5	3.5	5.0	5.0	7.5	
d	0.5		0.5、0.6		0.6		0.8

α MAX	( L < 20 ) 1.5
	( L ≥ 20 ) 2.0

β MAX	( D < 20 ) 0.5
	( D ≥ 20 ) 1.0



CAP(μF)		WV	35V(1V)			50V(1H)			63V(1J)			100V(2A)		
			case size	ESR	Ripple	case size	ESR	Ripple	case size	ESR	Ripple	case size	ESR	Ripple
4.7	4R7										5×11	1.60	105	
5.6	5R6										5×11	1.49	116	
6.8	6R8										5×11	1.45	120	
10	100										6.3×11	1.00	150	
22	220							6.3×11	0.50	250	8×11.5	0.80	370	
33	330							6.3×11	0.32	270	8×11.5	0.70	370	
47	470	5×11	0.55	200	6.3×11	0.24	320	8×11.5	0.22	480	10×12.5	0.30	500	
56	560	6.3×11	0.25	350							10×12.5	0.21	550	
68	680							8×11.5	0.20	550	10×16	0.18	630	
82	820										10×16	0.15	700	
100	101	6.3×11	0.15	400	8×11.5	0.10	610	10×12.5	0.14	720	10×20	0.09	970	
220	221	8×16	0.065	980	10×16	0.06	1136	10×25	0.075	1315	12.5×20	0.065	1500	
		10×12.5	0.060	1050										
270	271							12.5×20	0.060	1560				
330	331	8×20	0.041	1210	10×20	0.05	1500	10×30	0.047	1750	16×25	0.045	2150	
		10×12.5	0.045	1120										
470	471	10×16	0.038	1500	12.5×20	0.035	1900	12.5×25	0.038	2000	16×30	0.030	2350	
								16×20	0.038	2300				
680	681	12.5×20	0.035	2150										
820	821				16×20	0.034	2100							
1000	102	12.5×20	0.032	2180	16×25	0.025	2850	16×30	0.028	2850				
1200	122	12.5×25	0.028	2300										
1500	152	16×25	0.026	2700										

Case Size φ D×L(mm)

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz

Maximum ESR (Ω) at 20°C 100KHz