

**GK Series** CD263F型

**LOW IMPEDANCE, LONG LIFE 低阻品, 长寿命**

- 105℃ 2000~5000小时寿命  
Load life of 2000~5000 hours at 105℃.
- 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

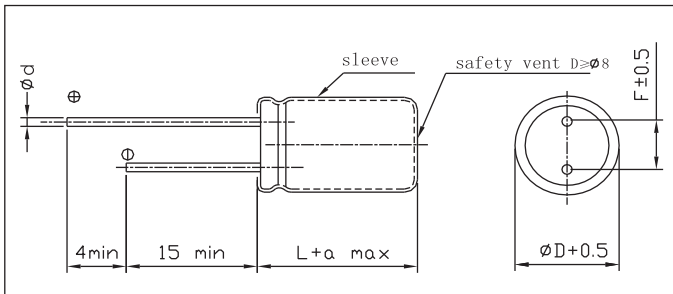


**主要技术性能 Specification**

项目 Items	特性 Performance Characteristics																		
使用温度范围 Operating temperature range	-55 ~ +105 ℃																		
额定电压范围 Rated voltage range	6.3 ~ 35V																		
标称电容量范围 Nominal capacitance range	100 ~ 6800µF																		
标称电容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20° C)																		
漏电流 Leakage current	≤0.01CV (µA)或3µA 2分钟 取较大者 (at 20℃,after 2 minutes, Whichever is greater)																		
损耗角正切值 (tg δ) Disipation factor (+20℃,120Hz)	<table border="1"> <tr> <td>UR(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> </tr> <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> </tr> </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>	UR(V)	6.3	10	16	25	35	tg δ	0.22	0.19	0.16	0.14	0.12						
UR(V)	6.3	10	16	25	35														
tg δ	0.22	0.19	0.16	0.14	0.12														
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>UR(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>25</td> </tr> <tr> <td>Z-25℃/ Z+20℃</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40℃/ Z+20℃</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	UR(V)	6.3	10	16	25	25	Z-25℃/ Z+20℃	2	2	2	2	2	Z-40℃/ Z+20℃	3	3	3	3	3
UR(V)	6.3	10	16	25	25														
Z-25℃/ Z+20℃	2	2	2	2	2														
Z-40℃/ Z+20℃	3	3	3	3	3														
耐久性 Load life	<p>持续时间Duration:</p> <table border="1"> <tr> <td>φD</td> <td>6.3</td> <td>8</td> <td>10</td> <td>12.5~</td> </tr> <tr> <td>Load life</td> <td>2000h</td> <td>3000h</td> <td>4000h</td> <td>5000h</td> </tr> </table> <p>+105℃加额定电压, 恢复16小时后: After applying rated voltage at +105℃ 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 ≤ 2times of the initial specified value</p>	φD	6.3	8	10	12.5~	Load life	2000h	3000h	4000h	5000h								
φD	6.3	8	10	12.5~															
Load life	2000h	3000h	4000h	5000h															
高温贮存 Shelf life	<p>+105℃,1000小时贮存后,恢复16小时后: After storage for 1000 hours at +105℃ 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 ≤ 2times of the initial specified value 损耗角正切值 Dissipation factor ≤ 2倍初始规定值 ≤ 2times of the initial specified value</p>																		

**外形图及尺寸图 Case size table**

单位 Unit: mm



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

αMAX	( L < 20 ) 1.5	βMAX	( D < 20 ) 0.5
	( L ≥ 20 ) 2.0		( D ≥ 20 ) 1.0

频率的修正系数 Frequency coefficient

Cap.(µF) \ (Hz)	120	1K	10K	100K
100~180	0.40	0.75	0.90	1.00
220~560	0.50	0.85	0.94	1.00
680~1800	0.60	0.87	0.95	1.00
2200~3900	0.75	0.90	0.95	1.00
4700~	0.85	0.95	0.98	1.00

**纹波电流的相关参数 Multiplier For Ripple Current**

环境温度的修正系数 Temperature coefficient

环境温度(℃) Temperature	55	60	70	85	105
Factor	2.23	2.17	2.00	1.75	1.00

**GK Series**

■ 尺寸 Dimensions

Voltage(Code)		6.3V(0J)			10v(1A)			16v(1C)		
Cap.(μF)	Code	case size	Impedance	Ripple Current	case size	Impedance	Ripple Current	case size	Impedance	Ripple Current
120	121							6.3×11	0.130	405
150	151									
180	181									
220	221	6.3×11	0.130	405	6.3×11	0.130	405	8×11.5	0.072	760
330	331	6.3×11	0.130	405	8×11.5	0.072	760	8×11.5	0.072	760
470	471	8×11.5	0.072	760	8×11.5	0.072	760	8×16	0.056	995
								10×12.5	0.053	1030
560	561	8×11.5	0.072	760						
680	681				8×16	0.056	995	8×20	0.041	1250
					10×12.5	0.053	1030	10×16	0.038	1430
820	821	8×16	0.056	995						
1000	102	10×12.5	0.053	1030	8×20	0.041	1250	10×20	0.023	1820
					10×16	0.038	1430			
1200	122	8×20	0.041	1250	10×20	0.023	1820	10×25	0.022	2150
		10×16	0.038	1430						
1500	152	10×20	0.023	1820	10×25	0.022	2150	12.5×20	0.021	2360
2200	222	10×25	0.022	2150	12.5×20	0.021	2360	12.5×25	0.018	2770
2700	272							12.5×30	0.016	3290
								16×20	0.018	3140
3300	332	12.5×20	0.021	2360	12.5×25	0.018	2770	12.5×35	0.015	3400
3900	392	12.5×25	0.018	2770	12.5×30	0.016	3290	16×25	0.016	3460
					16×20	0.018	3140			
4700	472	12.5×30	0.016	3290	12.5×35	0.015	3400			
5600	562	12.5×35	0.015	3400	16×25	0.016	3460			
		16×20	0.018	3140						
6800	682	16×25	0.016	3460						

Voltage(Code)		25V(1E)			35V(1V)		
Cap.(μF)	Code	case size	Impedance	Ripple Current	case size	Impedance	Ripple Current
56					6.3×11	0.230	360
100	101	6.3×11	0.130	405			
220	121	8×11.5	0.072	760			
330	331	8×16	0.056	995			
		10×12.5	0.053	1030			
470	471	8×20	0.041	1250	10×16	0.068	1430
		10×16	0.038	1430	10×20	0.062	1480
680	681	10×20	0.023	1820	12.5×20	0.038	1820
820	821	10×25	0.022	2150			
1000	102	12.5×20	0.021	2360	10×30	0.032	2430
					12.5×25	0.032	2480
					12.5×30	0.030	2520
1500	152	12.5×25	0.018	2770			
1800	182	12.5×30	0.016	3290			
		16×20	0.018	3140			
2200	222	12.5×35	0.015	3400	16×30	0.021	3620
2700	272	16×25	0.016	3460			

Maximum Allowable Ripple Current (Arms, at 105°C100KHz)  
Maximum Impedance(Ω) at 20°C100KHz