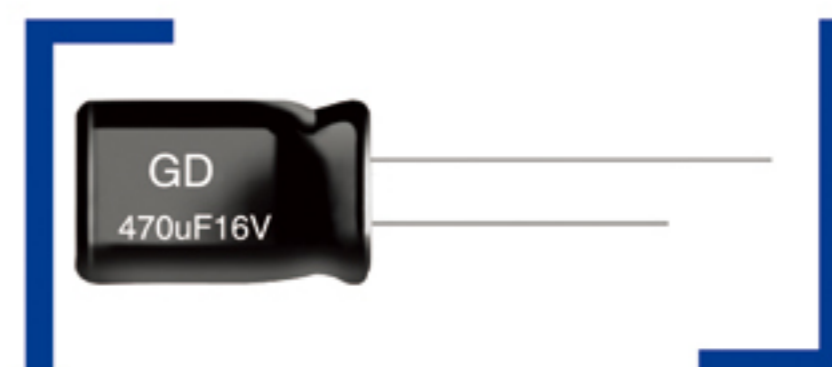


# GD

- ◎ 100KHZ 低阻抗, 105°C 2000~4000小时。  
Low impedance at 100KHZ, Load life: 105°C 2000~4000 hours.
- ◎ 高频率低ESR、承受高纹波电流。  
Enabled high ripple current by a reduction of ESR at high frequency range.
- ◎ ROHS指令已对应完毕。Adapted to the ROHS directive.



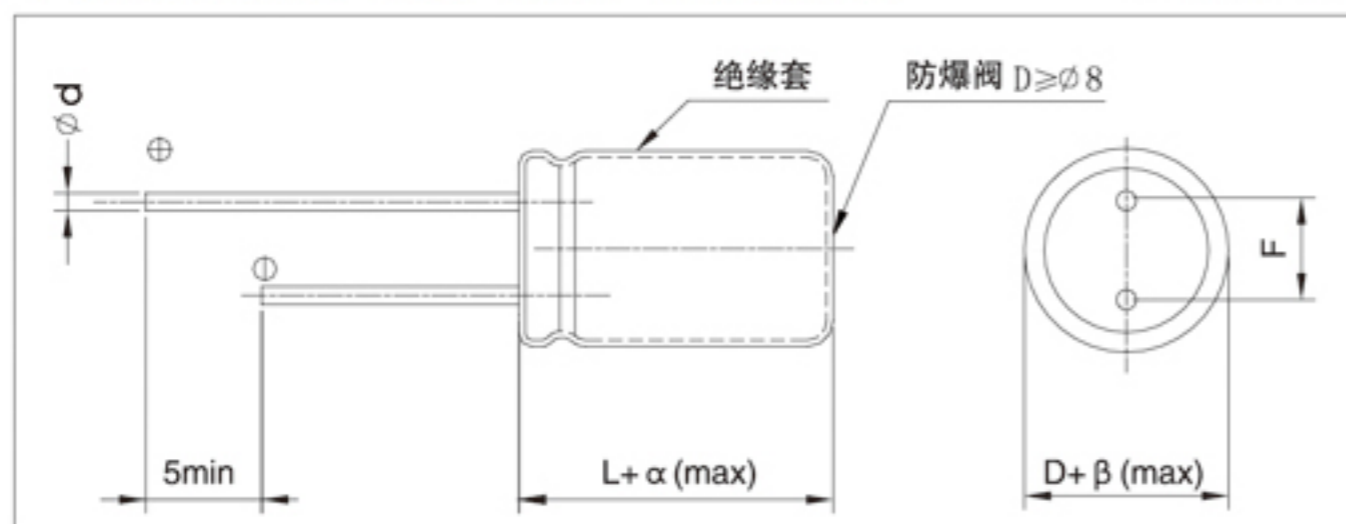
## 主要技术性能 Specifications

项目 Items	特性 Performance Characteristics										
使用温度范围 Operating temperature range	-40 ~ +105°C										
额定电压范围 Rated voltage range	6.3 ~ 25 V										
标称容量范围 Nominal capacitance range	100~ 3300 μF										
标称容量允许偏差 Capacitance tolerance	±20% (120Hz, +20°C)										
漏电流 Leakage current	$I \leq 0.03CV$ (μA) 2分钟(at 20°C, after 2 minutes)										
损耗角正切值 (tg δ) Dissipation factor(+20°C, 120Hz)	<table border="1"> <tr> <td>U<sub>R</sub> (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> </tr> <tr> <td>tg δ</td> <td>0.18</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table> <p>容量大于1000 μF者, 每增加1000 μF, 其损耗角正切值增加0.02 When nominal capacitance exceeds 1000 μF, add 0.02 to the value above for each 1000 μF increase.</p>	U <sub>R</sub> (V)	6.3	10	16	25	tg δ	0.18	0.14	0.12	0.10
U <sub>R</sub> (V)	6.3	10	16	25							
tg δ	0.18	0.14	0.12	0.10							
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>U<sub>R</sub> (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> </tr> </table>	U <sub>R</sub> (V)	6.3	10	16	25	Z-40°C / Z+20°C	8	6	4	3
U <sub>R</sub> (V)	6.3	10	16	25							
Z-40°C / Z+20°C	8	6	4	3							
耐久性 Load life	<table border="1"> <tr> <td>φD</td> <td>5</td> <td>6.3</td> <td>8</td> <td>≥10</td> </tr> <tr> <td>Load life</td> <td>2000h</td> <td>3000h</td> <td>4000h</td> <td></td> </tr> </table> <p>105°C, 按上表时间加额定电压, 恢复16小时后: At 105°C, for the time above, After applying rated voltage 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	5	6.3	8	≥10	Load life	2000h	3000h	4000h	
φD	5	6.3	8	≥10							
Load life	2000h	3000h	4000h								
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 ≤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>										

LOW-ESR

## 外形图及尺寸表 Case size table

单位Unit: mm



D	5	6.3	8	10	12.5	16	α MAX	( L < 20 ) 1.5	β MAX	( D < 20 ) 0.5
F	2.0	2.5	3.5	5.0	5.0	7.5		( L ≥ 20 ) 2.0		( D ≥ 20 ) 1.0
d	0.5		0.5, 0.6	0.6		0.8				

频率修正系数 Frequency coefficient

频率(Hz)	120	1K	10K	100K	
CAP.(μF)	100-3300	0.50	0.80	0.90	1.00

## 尺寸 Dimensions

CAP.(μF)	WV	6.3V(0J)			10V(1A)			16V(1C)			25V(1E)		
		Size	ESR	Ripple	Size	ESR	Ripple	Size	ESR	Ripple	Size	ESR	Ripple
100	101	5×11	0.245	240	5×11	0.300	250				6.3×11	0.085	600
220	221				6.3×11	0.065	410	6.3×11	0.055	420	8×11.5	0.052	820
330	331										8×11.5	0.029	1200
470	471				8×11.5	0.038	950	8×11.5	0.036	1140	10×12.5	0.026	1450
560	561	8×11.5	0.038	1080	8×11.5	0.038	960				8×20	0.023	1650
680	681	8×11.5	0.038	1080	8×11.5	0.036	1080	8×16	0.028	1490	8×20	0.023	1700
								10×12.5	0.026	1540	10×16	0.022	1750
820	821	8×11.5	0.036	1140	8×16	0.029	1450				10×20	0.020	1800
1000	102	8×16	0.036	1200	8×16	0.028	1490	8×20	0.022	1870	10×20	0.018	2180
		10×12.5	0.027	1500	10×12.5	0.026	1540	10×16	0.020	1910			
1200	122	8×16	0.028	1490	8×20	0.023	1850	10×20	0.017	2540			
		10×12.5	0.027	1520									
1500	152	8×20	0.020	1870	8×20	0.023	1870	10×20	0.018	2550	12.5×20	0.016	2480
		10×12.5	0.022	1540	10×16	0.022	2000						
1800	182	10×16	0.019	1850	10×20	0.020	2450	10×25	0.015	2800			
2200	222	8×20	0.018	1870	10×20	0.018	2450						
		10×16	0.018	1910	10×25	0.016	2650						
2700	272							12.5×30	0.014	3000	16×30	0.015	2555
3300	332	10×25	0.015	2800									

Size φD×L(mm)  
Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz  
Maximum ESR (Ω) at 20°C 100KHz