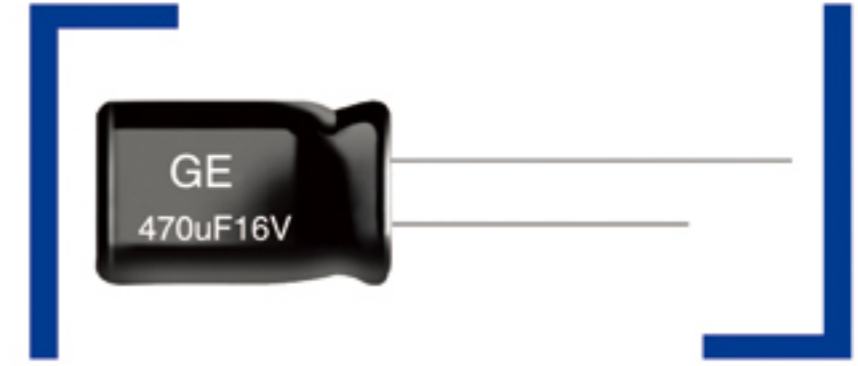


GE

- ◎ 100KHZ 低阻抗, 105°C 2000小时。
Low impedance at 100KHZ, Load life: 105°C 2000 hours.
- ◎ 在高频范围内降低ESR, 承受高纹波电流, 适用于电脑主机板。
Enabled high ripple current by a reduction of ESR at high frequency range . Suitable for motherboard.
- ◎ ROHS指令已对应完毕。Adapted to the ROHS directive.



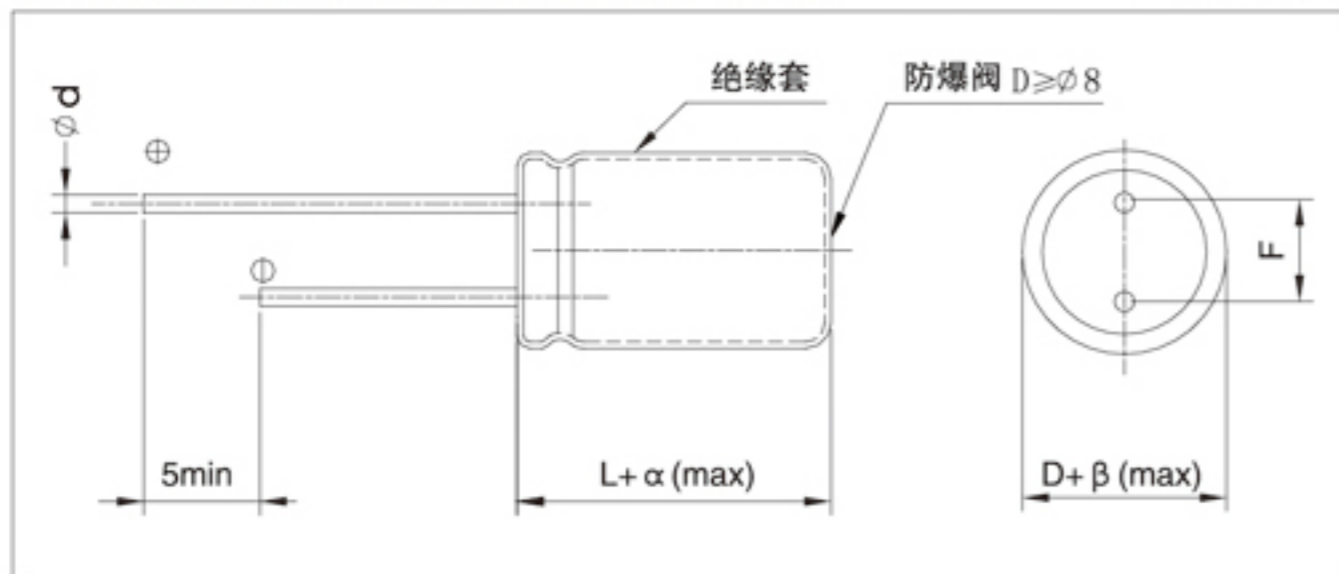
主要技术性能 Specifications

项目 Item	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 ~ 25 V										
标称容量范围 Nominal capacitance range	220 ~ 4700 μ F										
标称容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20°C)										
漏电流 Leakage current	$I \leq 0.01CV$ (μ A) 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_R (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> </tr> <tr> <td>tg δ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> </tr> </table> <p>容量大于1000 μ F者, 每增加1000 μ F, 其损耗角正切值增加0.02 When nominal capacitance exceeds 1000 μ F, add 0.02 to the value above for each 1000 μ F increase</p>	U _R (V)	6.3	10	16	25	tg δ	0.22	0.19	0.16	0.14
U _R (V)	6.3	10	16	25							
tg δ	0.22	0.19	0.16	0.14							
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>U_R (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 _R (V)	6.3	10	16	25	Z-40°C / Z+20°C	8	6	4	3
U _R (V)	6.3	10	16	25							
Z-40°C / Z+20°C	8	6	4	3							
耐久性 Load life	<p>+105°C加额定电压2000小时, 恢复16小时后: After applying rated voltage for 2000 hours at +105°C and then resumed for 16 hours: 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>										
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: 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
F	2.0	2.5	3.5	5.0	5.0
d	0.5		0.5, 0.6		0.6
α MAX	(L < 20) 1.5		β MAX	(D < 20) 0.5	
	(L ≥ 20) 2.0			(D ≥ 20) 1.0	

频率修正系数 Frequency coefficient

CAP(μF)	Freq.(Hz)	120	1K	10K	100K
220~4700		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
220	221							6.3×11	0.135	520	8×11.5	0.060	760
270	271				8×11.5	0.085	780	8×11.5	0.102	560	8×11.5	0.060	760
330	331							6.3×11	0.115	520	8×11.5	0.056	780
470	471	6.3×11	0.095	420	8×11.5	0.046	820	8×11.5	0.052	1036	8×16	0.048	1050
680	681	8×11.5	0.058	780	8×11.5	0.043	1036	8×16	0.040	1355	10×16	0.038	1200
820	821	8×11.5	0.043	1036				10×12.5	0.038	1400			
1000	102	8×11.5	0.036	1120	10×12.5	0.034	1355	8×20	0.025	1700			
1200	122	8×16	0.034	1355				10×16	0.023	1818			
1500	152	8×20	0.026	1700	8×20	0.025	1700	10×20	0.022	2318			
1800	182	10×16	0.028	1818	10×16	0.028	1818	10×20	0.019	2410			
2200	222	10×20	0.025	2318	10×25	0.020	2400	12.5×20	0.018	2450			
3300	332	10×25	0.020	2545									
4700	472	10×30	0.018	2665									

Size φ D × L(mm)

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

Maximum ESR (Ω) at 20°C 100KHz