

GD

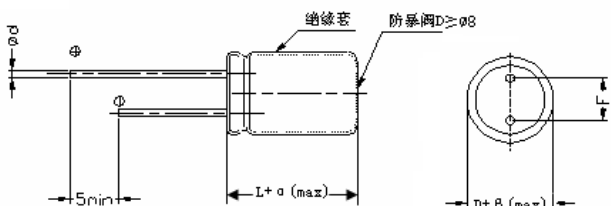
- 100KHZ 低阻抗, 105°C 2000~4000 小时
Low impedance at 100KHZ, Load life: 105°C 2000~4000 hours.
- 高频率低 ESR、承受高纹波电流
Enabled high ripple current by a reduction of ESR at high frequency range.
- ROHS 指令已对应完毕。
Adapted to the ROHS directive.

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 ~ 25V										
标称容量范围 Nominal capacitance range	100 ~ 3300μF										
标称容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20°C)										
漏电流 Leakage current	$I \leq 0.01CV (\mu A)$ 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"> <thead> <tr> <th>U_R (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> </tr> </thead> <tbody> <tr> <td>tg δ</td> <td>0.18</td> <td>0.14</td> <td>0.12</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 _R (V)	6.3	10	16	25	tg δ	0.18	0.14	0.12	0.10
U _R (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"> <thead> <tr> <th>U_R (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> </tr> </thead> <tbody> <tr> <td>Z-40°C / Z+20°C</td> <td>8</td> <td>6</td> <td>6</td> <td>6</td> </tr> </tbody> </table>	U _R (V)	6.3	10	16	25	Z-40°C / Z+20°C	8	6	6	6
U _R (V)	6.3	10	16	25							
Z-40°C / Z+20°C	8	6	6	6							
耐久性 Load life	<table border="1"> <thead> <tr> <th>ΦD</th> <th>5</th> <th>6.3</th> <th>8</th> <th>≥10</th> </tr> </thead> <tbody> <tr> <td>Load life</td> <td>2000h</td> <td>3000h</td> <td>4000h</td> <td></td> </tr> </tbody> </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>										

外形图及尺寸表 Case size table

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

频率修正系数 Frequency coefficient

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

尺寸 DIMENSIONS

WV		6.3V(0J)			10V(1A)			16V(1C)			25V(1E)		
CAP(μF)		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	0.034	1050
470	471				8×11.5	0.038	950	8×11.5	0.036	1140	10×12.5	0.026	1450
											8×20	0.023	1650
560	561	8×11.5	0.038	1080	8×11.5	0.038	960						
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 $\phi D \times L$ (mm)

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

Maximum ESR (Ω) at 20°C 100KHz