

GD

特点 Features

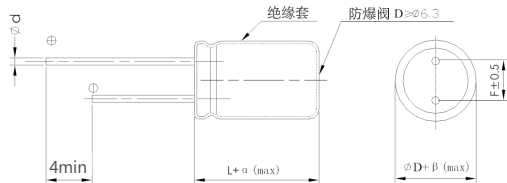
- 保证105°C 2000~4000小时。 Endurance :2000~4000h at 105°C.
- 额定电压范围：6.3~25V。 Rated Voltage Range: 6.3~25V.
- 高纹流,极低阻抗。 High ripple current, Ultra low ESR.
- 满足RoHS。 RoHS Compliant.



主要技术性能 Specifications

项目 Items	特性 Performance Characteristics													
类别温度范围 Category Temperature Range	-40~+105°C													
额定电压范围 Rated Voltage(U _R)	6.3~25V													
标称容量范围 Nominal Capacitance Range(C _R)	100~3300µF			120Hz, +20°C										
标称容量允许偏差 Allowed Capacitance Tolerance(C _r)	±20%(M)			120Hz, +20°C										
漏电流 Leakage Current(I _L)	≤0.01C _R U _R 或者3µA 取较大值 (Whichever is greater)			+20°C after 2 minutes										
损耗角正切值 Tangent of loss angle(Tanδ)	<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>Tanδ</td> <td>0.18</td> <td>0.14</td> <td>0.12</td> <td>0.1</td> </tr> </table> <p>当容量大于1000µF时, 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	Tanδ	0.18	0.14	0.12	0.1	Max. 120Hz, +20°C
U _R (V)	6.3	10	16	25										
Tanδ	0.18	0.14	0.12	0.1										
低温特性 Characteristics at low temperature	<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>6</td> <td>6</td> </tr> </table>			U _R (V)	6.3	10	16	25	Z _{40°C} / Z _{+20°C}	8	6	6	6	Max. 120Hz
U _R (V)	6.3	10	16	25										
Z _{40°C} / Z _{+20°C}	8	6	6	6										
耐久性 Load life	<p>+105°C, 不超过额定电压的范围下叠加额定纹波电流, 连续施加表中规定额定电压时间, 恢复16小时后: Overlay the rated ripple current within the range of rated voltage, continuously apply the rated voltage specified in the table for a time +105 °C, and recover for 16 hours ; 容量变化率Capacitance change : ±25%初始测量值以内 within ±25% of initial value 损耗角正切值 Tanδ : ≤2倍初始规定值 Not more than 200% of specified value 漏电流 Leakage current : ≤初始规定值 Not more than specified value</p> <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 colspan="2">2000h</td> <td>3000h</td> <td>4000h</td> </tr> </table>				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 recovery 16 hours: 容量变化率Capacitance change : ±25%初始测量值以内 within ±25% of initial value 损耗角正切值 Tanδ : ≤2倍初始规定值 Not more than 200% of specified value 漏电流 Leakage current : ≤2倍初始规定值 Not more than 200% of specified value</p>													

尺寸图 Dimension drawings



单位 Unit: mm

D	5	6.3	8	10	12.5	16	αMAX	$\begin{cases} < L < 20 > 1.5 \\ < L \geq 20 > 2.0 \end{cases}$	βMAX	$\begin{cases} < D < 20 > 0.5 \\ < D \geq 20 > 1.0 \end{cases}$
F	2.0	2.5	3.5	5.0	5.0	7.5				
d	0.5	0.5, 0.6	0.6	0.6	0.8	0.8				

频率修正系数 Frequency Coefficient

C _R (µF)	Frequency (Hz)			
	120	1K	10K	100K
100~3300	0.50	0.80	0.90	1.00

规格特性表 Table of specifications and characteristics

C _R (µF)	U _R (V)	6.3			10			16			25		
		ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{ACmax} 100KHz 105°C mA	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{ACmax} 100KHz 105°C mA	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{ACmax} 100KHz 105°C mA	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{ACmax} 100KHz 105°C mA
100		5×11	0.245	240	5×11	0.300	250				6.3×11	0.085	600
220					6.3×11	0.065	410				8×11.5	0.052	820
330											8×11.5	0.034	1050
470					8×11.5	0.038	950	8×11.5	0.036	1140	10×12.5	0.026	1450
560		8×11.5	0.038	1080	8×11.5	0.038	960				8×20	0.023	1650
680		8×11.5	0.038	1100	8×11.5	0.036	1080	8×16	0.028	1490	8×20	0.023	1700
820								10×12.5	0.026	1540	10×16	0.022	1750
		8×11.5	0.036	1140	8×16	0.029	1450				10×20	0.020	1800
		8×16	0.036	1200	8×16	0.028	1490	8×20	0.022	1870	10×20	0.018	2180
1000		10×12.5	0.027	1500	10×12.5	0.026	1540	10×16	0.020	1910			
		8×16	0.028	1490	8×20	0.023	1850	10×20	0.017	2540			
1200		10×12.5	0.027	1520									
		8×20	0.020	1870	8×20	0.023	1900	10×20	0.018	2650	12.5×20	0.016	2480
1500		10×12.5	0.022	1540	10×16	0.022	2000						
		10×16	0.019	1850	10×20	0.020	2450	10×25	0.015	2800			
1800		8×20	0.018	1870	10×20	0.018	2500						
2200		10×16	0.018	1910	10×25	0.016	2650						
2700								12.5×30	0.014	3000	16×30	0.015	2555
3300		10×25	0.015	2800									