

FM

特点 Features

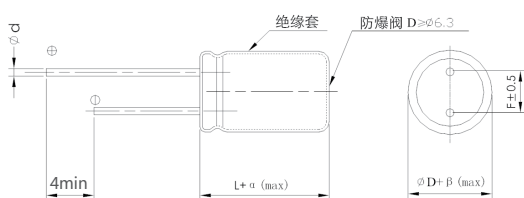
- 保证105°C 2000小时。 Endurance :2000h at 105°C.
- 额定电压范围：6.3~100V。 Rated Voltage Range: 6.3~100V.
- 极低漏电特性。 Extremely low leakage current.
- 满足RoHS。 RoHS Compliant.



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 ~ 100V																												
标称容量范围 Nominal Capacitance Range(C _R)	0.1~2200μF	120Hz,+20°C																											
标称容量允许偏差 Allowed Capacitance Tolerance(C _T)	±20%(M)	120Hz,+20°C																											
漏电流 Leakage Current(I _L)	≤0.002C _R U _R 或者0.4μA 取较大值 (Whichever is greater)																												
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> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Tanδ</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.10</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	63	100	Tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10	Max. 120Hz,+20°C									
	U _R (V)	6.3	10	16	25	35	50	63	100																				
Tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10																					
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.																													
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> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Z_{25°C} / Z_{+20°C}</td> <td>4</td> <td>3</td> <td>2</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> </tr> <tr> <td>Z_{40°C} / Z_{+20°C}</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	63	100	Z _{25°C} / Z _{+20°C}	4	3	2	1.5	1.5	1.5	1.5	1.5	Z _{40°C} / Z _{+20°C}	8	6	4	4	3	3	3	3	Max. 120Hz
	U _R (V)	6.3	10	16	25	35	50	63	100																				
Z _{25°C} / Z _{+20°C}	4	3	2	1.5	1.5	1.5	1.5	1.5																					
Z _{40°C} / Z _{+20°C}	8	6	4	4	3	3	3	3																					
耐久性 Load life	+105°C，不超过额定电压的范围下叠加额定纹波电流，连续加载额定电压2000小时，恢复16小时后： Overlay the rated ripple current within the range of rated voltage and continuously load the rated voltage for 2000 hours+105 °C，and recover for 16 hours； 容量变化率Capacitance change : ±20%初始测量值以内 within ±20% 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																												
高温贮存 Shelf life	+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 : ±20%初始测量值以内 within ±20% 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																												

尺寸图 Dimension drawings



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	0.5、0.6	0.6	0.6

αMAX	ε L < 20 > 1.5
	ε L ≥ 20 > 2.0

频率修正系数 Frequency Coefficient

Frequency (Hz) C _R (μF) \ Kf	60	120	1K	≥10K
	0.1~22	0.8	1	1.5
33~100	0.8	1	1.4	1.5
220~2200	0.8	1	1.3	1.35

规格特性表
Table of specifications and characteristics

U _R (V) C _R (μF)	6.3		10		16		25	
	ΦD×L mm*mm	I _{AC,max} 120Hz 105°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 105°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 105°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 105°C mA
4.7							5×11	32
10					5×11	39	5×11	43
22	5×11	36	5×11	50	5×11	62	5×11	65
33	5×11	44	5×11	66	5×11	68	5×11	76
47	5×11	53	5×11	75	5×11	105	6.3×11	116
100	5×11	74	5×11	104	6.3×11	138	8×11.5	149
220	6.3×11	131	8×11.5	193	8×11.5	220	10×12.5	246
330	6.3×11	161	8×11.5	256	8×11.5	268	10×12.5	352
470	8×11.5	242	8×11.5	319	10×12.5	407	10×16	484
1000	10×12.5	390	10×16	605	10×20	704	12.5×20	847
2200	12.5×20	665	12.5×20	860	12.5×25	890		

U _R (V) C _R (μF)	35		50		63		100	
	ΦD×L mm*mm	I _{AC,max} 120Hz 105°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 105°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 105°C mA	ΦD×L mm*mm	I _{AC,max} 120Hz 105°C mA
0.1			5×11	6	5×11	6		
0.22			5×11	8	5×11	8		
0.33			5×11	10	5×11	10		
0.47			5×11	12	5×11	12		
1.0			5×11	17	5×11	17		
2.2			5×11	24	5×11	24	5×11	26
3.3			5×11	29	5×11	32	5×11	32
4.7	5×11	34	5×11	36	5×11	39	5×11	40
10	5×11	48	5×11	52	6.3×11	58	6.3×11	52
22	6.3×11	71	6.3×11	77	6.3×11	94	8×11.5	130
33	6.3×11	83	6.3×11	99	8×11.5	110	10×12.5	140
47	6.3×11	125	8×11.5	138	8×11.5	152	10×16	175
100	8×11.5	187	10×12.5	217	10×16	260	12.5×20	300
220	10×12.5	330	10×20	380	12.5×20	440		
330	10×16	440	12.5×20	506	12.5×25	594		
470	12.5×20	590	12.5×25	705				
1000	12.5×25	1012						