

RC

特点 Features

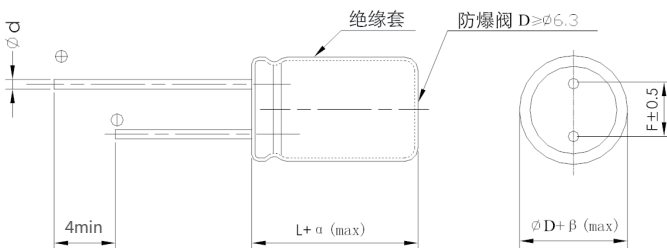
- 保证105°C 4000~10000小时。Endurance :4000~10000h at 105°C.
- 额定电压范围：6.3~63V。Rated Voltage Range: 6.3~63V.
- 无水,宽温度,超长寿命。Anhydrous, Wide temperature, Super Long life.
- 满足RoHS。RoHS Compliant.



主要技术性能 Specifications

项目 Items	特性 Performance Characteristics																																	
类别温度范围 Category Temperature Range	-55~+105°C																																	
额定电压范围 Rated Voltage(U _R)	6.3~63V																																	
标称电容量范围 Nominal Capacitance Range(C _R)	2.2~18000μF	120Hz,+20°C																																
标称电容量允许偏差 Allowed Capacitance Tolerance(C _T)	±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> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>Tanδ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.10</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	35	50	63	Tanδ	0.22	0.19	0.16	0.14	0.12	0.12	0.10	Max. 120Hz,+20°C																
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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> </tr> <tr> <td>Z_{-25°C} / Z_{+20°C}</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z_{-40°C} / Z_{+20°C}</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z_{-55°C} / Z_{+20°C}</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	63	Z _{-25°C} / Z _{+20°C}	3	3	3	3	3	3	3	Z _{-40°C} / Z _{+20°C}	3	3	3	3	3	3	3	Z _{-55°C} / Z _{+20°C}	6	6	6	6	6	6	6	Max. 120Hz
U _R (V)	6.3	10	16	25	35	50	63																											
Z _{-25°C} / Z _{+20°C}	3	3	3	3	3	3	3																											
Z _{-40°C} / Z _{+20°C}	3	3	3	3	3	3	3																											
Z _{-55°C} / Z _{+20°C}	6	6	6	6	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 ;</p> <p>电容量变化率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, 6.3</td> <td>8, 10</td> <td>≥12.5</td> </tr> <tr> <td>6.3~10(V)</td> <td>4,000 hours</td> <td>6,000 hours</td> <td>8,000 hours</td> </tr> <tr> <td>16~63(V)</td> <td>5,000 hours</td> <td>7,000 hours</td> <td>10,000 hours</td> </tr> </table>		ΦD	5, 6.3	8, 10	≥12.5	6.3~10(V)	4,000 hours	6,000 hours	8,000 hours	16~63(V)	5,000 hours	7,000 hours	10,000 hours																				
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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:</p> <p>电容量变化率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



D	5	6.3	8	10	12.5	16~18
F	2.0	2.5	3.5	5.0	5.0	7.5
d	0.5	0.5, 0.6	0.6	0.6	0.6	0.8

频率修正系数 Frequency Coefficient

Frequency (Hz)	Kf			
	120	1K	10K	≥100K
C _R (μF) ~4.7	0.42	0.70	0.80	1.00
5.6~33	0.50	0.73	0.90	1.00
34~330	0.55	0.77	0.95	1.00
331~1000	0.60	0.80	0.96	1.00
1200~	0.70	0.85	0.98	1.00

单位 Unit: mm

αMAX	α < L < 20 > 1.5	βMAX	β < D < 20 > 0.5
	α < L ≥ 20 > 2.0		β < D ≥ 20 > 1.0

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 _{AC,max} 100KHz 105°C mA	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{AC,max} 100KHz 105°C mA	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{AC,max} 100KHz 105°C mA	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{AC,max} 100KHz 105°C mA
47										5×11	0.67	150	
56								5×11	0.58	150			
100		5×11	0.59	200	5×11	0.58	210				6.3×11	0.35	280
120								6.3×11	0.22	340			
150		5×11	0.58	210									
220					6.3×11	0.25	340				8×11.5	0.20	480
330		6.3×11	0.25	340				8×11.5	0.20	520	10×12.5	0.11	760
470					8×11.5	0.18	460	10×12.5	0.18	760	10×16	0.10	1250
								6.3×15	0.18	540	10×20	0.09	1400
680		8×11.5	0.11	640	8×16	0.11	680	10×16	0.08	1250	10×16	0.09	1250
											10×20	0.08	1400
820		10×12.5	0.08	865							10×20	0.072	1400
1000		8×16	0.087	840	8×20	0.083	1150	10×20	0.078	1400	10×20	0.068	1400
					10×16	0.085	1250				12.5×15	0.07	1450
1200		10×16	0.060	1210	10×20	0.046	1400	10×25	0.05	1540			
1500		10×20	0.046	1400	10×25	0.042	1650	12.5×20	0.045	1820	12.5×25	0.040	2060
2200		10×25	0.042	1650	10×30	0.036	1800	12.5×25	0.034	1960	16×25	0.032	2540
3300		12.5×20	0.035	1900	12.5×25	0.030	2230	12.5×35	0.029	2500	18×25	0.027	3140
3900		12.5×25	0.030	2230	12.5×30	0.028	2650	16×25	0.025	2630	18×30	0.025	3400
4700		12.5×30	0.027	2650	12.5×35	0.025	2880	16×30	0.024	3100	18×35	0.023	3900
6800		16×25	0.024	2930	18×25	0.023	3140	16×40	0.022	3800			
8200		16×30	0.023	3450	18×30	0.021	4170	18×35	0.020	3950			
10000		16×35	0.021	3610	18×35	0.020	4220	18×40	0.019	4000			
15000		18×35	0.020	4220									
18000		18×40	0.018	4280									

C _R (μF)	U _R (V)	35			50			63		
		ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{AC,max} 100KHz 105°C mA	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{AC,max} 100KHz 105°C mA	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{AC,max} 100KHz 105°C mA
2.2					5×11	3.5	43			
3.3					5×11	3.2	53			
4.7					5×11	3.1	78			
6.8					5×11	3.0	82			
10					5×11	2.0	98			
22		5×11	1.5	110	5×11	1.5	110			
33		5×11	1.2	125	6.3×11	1.0	158	6.3×11	0.55	180
56		6.3×11	0.50	210				8×11.5	0.42	350
82								10×12.5	0.20	820
100					8×11.5	0.29	500			
120					8×16	0.15	530	10×16	0.18	1200
150		8×11.5	0.28	380	10×12.5	0.16	820			
220		10×12.5	0.16	650	10×16	0.11	1200	10×25	0.18	1540
270		8×20	0.15	1150	10×20	0.078	1400	12.5×20	0.18	1820
330		10×16	0.14	1200	10×25	0.072	1540	12.5×25	0.079	1950
470		8×20	0.13	1180	12.5×20	0.063	1820	12.5×30	0.065	2150
		10×20	0.12	1400						
680		12.5×20	0.072	1820	12.5×30	0.058	2150	16×25	0.062	2600
820					12.5×35	0.050	2230	18×25	0.050	2800
1000		12.5×25	0.060	1950	16×25	0.048	2400	16×35	0.042	2900
1200		12.5×30	0.055	2650	18×25	0.040	2680	16×40	0.038	3400
1500		12.5×35	0.042	2880	16×35	0.035	2900	18×35	0.030	3400
2200		16×30	0.031	3000	18×35	0.030	3680	18×40	0.027	3500
3300		16×40	0.026	3200						