

FC

特点 Features

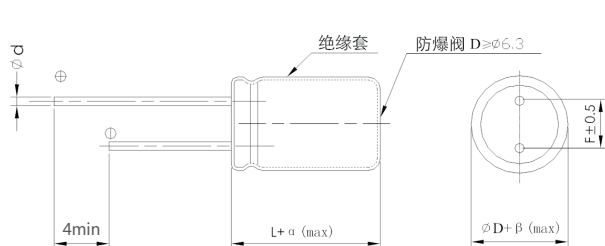
- 保证105°C 3000~5000小时。 Endurance :3000~5000h at 105°C.
- 额定电压范围：50~120V。 Rated Voltage Range: 50~120V.
- 适应于无刷电机驱动及耐大电流冲击。
Used Suitable for brushless motor drive and large current impact resistance .
- 满足RoHS。 RoHS Compliant.



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 Range (U _R)	50 ~ 120V									
标称电容范围 Rated Capacitance Range(C _R)	220~1000μF	120Hz, +20°C								
标称电容允许偏差 Rated 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)									
损耗角正切值 Tangent of loss angle(Tanδ)	<table border="1"> <tr> <td>U_R (V)</td> <td>50</td> <td>63-120</td> </tr> <tr> <td>Tanδ</td> <td>0.10</td> <td>0.08</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)	50	63-120	Tanδ	0.10	0.08	Max. 120Hz, +20°C		
U _R (V)	50	63-120								
Tanδ	0.10	0.08								
低温特性 Characteristics at low temperature	<table border="1"> <tr> <td>U_R (V)</td> <td>50-120</td> </tr> <tr> <td>Z-40°C / Z+20°C</td> <td>4</td> </tr> </table>	U _R (V)	50-120	Z-40°C / Z+20°C	4	Max. 120Hz				
U _R (V)	50-120									
Z-40°C / Z+20°C	4									
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> <table border="1"> <tr> <td>∅D</td> <td>10</td> <td>12.5</td> <td>> 12.5</td> </tr> <tr> <td>Load life</td> <td>3000h</td> <td>4000h</td> <td>5000h</td> </tr> </table> <p>电容量变化率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</p>		∅D	10	12.5	> 12.5	Load life	3000h	4000h	5000h
∅D	10	12.5	> 12.5							
Load life	3000h	4000h	5000h							
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 : ±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 : ≤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	10	12.5	16	18
L	/	20,25	30,35	30,35,40
F	5.0	5.0	7.5	
d	0.6	0.6	0.8	
α(max)	(L<20) 1.5 (L≥20) 2.0			
β(max)	0.5			

频率修正系数 Frequency Coefficient

Frequency(Hz)	120	1K	10K	100K
Kf	0.5	0.8	1	1

目录中记载的内容可能未经提示而变更。贵司在购买时请要求提供承认书，并以此为基准使用。

The contents recorded in the catalogue might be changed without any reminder. Please ask for providing the datasheet and take it as standard when purchasing.

规格特性表
Table of specifications and characteristics

C _r (μF) \ U _r (V)	50			63			80		
	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
220	10×20	0.098	466	10×20	0.096	765	12.5×20	0.096	985
330	10×20	0.075	998	12.5×20	0.096	1092	12.5×25	0.096	1208
470	12.5×20	0.048	1192	12.5×20	0.068	1426	16×25	0.048	1579
680	12.5×20	0.042	1535	12.5×25	0.048	1705			
1000	16×30	0.038	1833	16×25	0.042	1832	16×30	0.035	2106

C _r (μF) \ U _r (V)	100			120		
	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
220	12.5×25	0.096	989	16×25	0.42	1105
330	16×25	0.066	1385	18×25	0.38	1515
470	16×25	0.058	1733			
1000	18×40	0.038	2317			