

FD

特点 Features

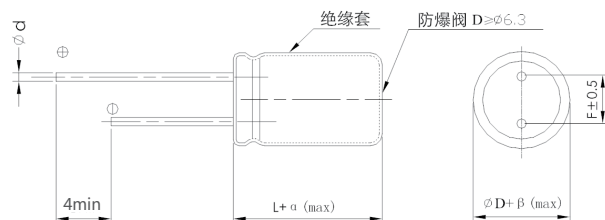
- 保证125°C 2000小时。Endurance :2000h at 125°C.
- 额定电压范围：50~100V。Rated Voltage Range: 50~100V.
- 适应于无刷电机驱动及耐大电流冲击。
Used Suitable for brushless motor drive and large current impact resistance .
- 满足RoHS。RoHS Compliant.



主要技术性能 Specifications

项目 Items	特性 Performance Characteristics							
类别温度范围 Category Temperature Range	-40~+125°C							
额定电压范围 Rated Voltage Range (U _R)	50 ~ 100V							
标称电容范围 Rated Capacitance Range(C _R)	100~2200µF	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>63~100</td> </tr> <tr> <td>Tanδ</td> <td>0.10</td> <td>0.09</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	63~100	Tanδ	0.10	0.09	Max. 120Hz, +20°C
U _R (V)	50	63~100						
Tanδ	0.10	0.09						
低温特性 Characteristics at low temperature	<table border="1"> <tr> <td>U_R (V)</td> <td>50-100</td> </tr> <tr> <td>Z_{-40°C} / Z_{+20°C}</td> <td>4</td> </tr> </table>	U _R (V)	50-100	Z _{-40°C} / Z _{+20°C}	4	Max. 120Hz		
U _R (V)	50-100							
Z _{-40°C} / Z _{+20°C}	4							
耐久性 Load life	+125°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+125°C , and recover for 16 hours ; 电容量变化率Capacitance change : ±30%初始测量值以内 within ±30% of initial value 损耗角正切值 Tanδ : ≤3倍初始规定值 Not more than 300% of specified value 漏 电 流 Leakage current : ≤初始规定值 Not more than specified value							
高温贮存 Shelf life	+125°C，1000小时贮存后,恢复16小时后： After storage for 1000 hours at +125°C and then recovery 16 hours: 电容量变化率Capacitance change : ±30%初始测量值以内 within ±30% of initial value 损耗角正切值 Tanδ : ≤3倍初始规定值 Not more than 300% of specified value 漏 电 流 Leakage current : ≤倍初始规定值 Not more than specified value							

尺寸图 Dimension drawings



单位 Unit: mm

ØD	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

规格特性表
Table of specifications and characteristics

C _R (μF) \ U _R (V)	50			63		
	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{AC,max} 100KHz 125°C mA	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{AC,max} 100KHz 125°C mA
220	10×20	0.098	475	10×20	0.096	768
330	10×20	0.075	1000	12.5×20	0.075	1095
470	12.5×20	0.072	1195	12.5×20	0.068	1465
680	12.5×20	0.045	1538	12.5×25	0.045	1708
1000	16×30	0.038	1835	16×25	0.038	1835
2200	18×30	0.035	1850	18×35	0.030	2710

C _R (μF) \ U _R (V)	80			100		
	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{AC,max} 100KHz 125°C mA	ΦD×L mm*mm	ESR _{max} 100KHz 25°C Ω	I _{AC,max} 100KHz 125°C mA
100	10×16	0.19	480	10×20	0.16	528
220	12.5×20	0.12	988	12.5×25	0.096	992
330	12.5×25	0.085	1210	16×25	0.070	1390
470	16×25	0.065	1555	16×25	0.065	1558
1000	16×30	0.048	2115	18×40	0.038	2320