



FRK Series

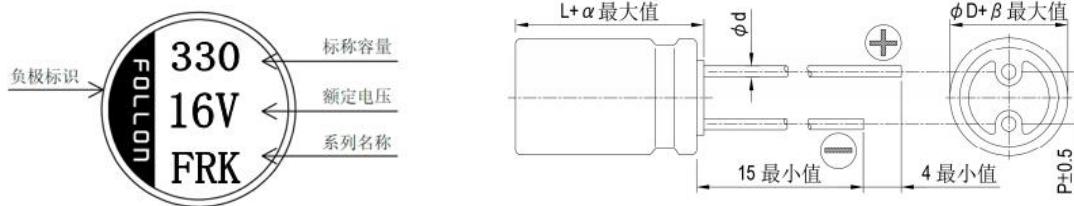
- 105°C 5000hours assured
105°C 5000H寿命保证
- Ultra low ESR with large permissible ripple current
极低等效串联电阻(ESR)并可承受大纹波电流
- RoHS compliance 符合RoHS指令



Specifications 特性表

Items 项目	Characteristics 主要特性								
Operation Temperature Range 使用温度范围	-55°C~105°C								
Voltage Range 额定电压范围	2.5~35V								
Capacitance Range 额定容量范围	68~820								
Capacitance Tolerance 额定容量容许误差值	±20% at 120Hz, 20°C								
Dissipation Factor (Tan δ) 损失角	Standard Ratings 标准品一览表								
ESR 等效串联电阻 (ESR)	Standard Ratings 标准品一览表								
Leakage Current 漏电流	Standard Ratings 标准品一览表								
Endurance 耐久性	<p>After 5000Hrs. Application of the rated voltage at 105 °C , returned to 20 °C for testing, they meet the characteristics listed below. 在105°C 下连续施加额定电压5000小时后, 返回20°C进行测试时, 满足以下项目</p> <table border="1"> <tr> <td>Capacitance Change 静电容量变化率</td><td>Within ±20% of initial value ≤初始值的±20%</td></tr> <tr> <td>Tan δ 损失角</td><td>Less than 150% of specified value ≤初始值的150%</td></tr> <tr> <td>ESR 等效串联电阻</td><td>Less than 150% of specified value ≤初始值的150%</td></tr> <tr> <td>Leakage Current 漏电流</td><td>Within specified value ≤初始规格值</td></tr> </table>	Capacitance Change 静电容量变化率	Within ±20% of initial value ≤初始值的±20%	Tan δ 损失角	Less than 150% of specified value ≤初始值的150%	ESR 等效串联电阻	Less than 150% of specified value ≤初始值的150%	Leakage Current 漏电流	Within specified value ≤初始规格值
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Leakage Current 漏电流	Within specified value ≤初始规格值								
Moisture Resistance 耐湿无负荷	<p>After 1000 hours in an environment of 60 °C , 90~95% humidity, return to 20 °C for testing. they meet the characteristics listed below. 在60°C, 湿度90~95%环境中1000H后, 返回20°C进行测试, 需满足以下项目</p> <table border="1"> <tr> <td>Capacitance Change 静电容量变化率</td><td>Within ±20% of initial value ≤初始值的±20%</td></tr> <tr> <td>Tan δ 损失角</td><td>Less than 150% of specified value ≤初始值的150%</td></tr> <tr> <td>ESR 等效串联电阻</td><td>Less than 150% of specified value ≤初始值的150%</td></tr> <tr> <td>Leakage Current 漏电流</td><td>Within specified value ≤初始规格值</td></tr> </table>	Capacitance Change 静电容量变化率	Within ±20% of initial value ≤初始值的±20%	Tan δ 损失角	Less than 150% of specified value ≤初始值的150%	ESR 等效串联电阻	Less than 150% of specified value ≤初始值的150%	Leakage Current 漏电流	Within specified value ≤初始规格值
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Leakage Current 漏电流	Within specified value ≤初始规格值								
Marking 标识	Red print on the case top. 铝壳顶部红色印刷。								

■ DRAWING (Unit: mm) 外形图



□ DIMENSIONS (Unit:mm) 尺寸表

单位: mm

尺寸	6.3X8	8X11.5	10X12
ΦD	6.3	8	10
L	8	11.5	12
P	2.5	3.5	5.0
Φd	0.6	0.6	0.6
α	1.0	1.0	1.0
β	0.5	0.5	0.5

Specifications 标准品一览表

Rated Volt. (V)	Surge Voltage(V)	Capacitance(μF)	Size ΦDXL (mm)	Tan δ 120Hz, 20°C	LC(μA) 2minutes	ESR (mΩ) 20°C 100KHZ	Rated R.C (mA/rms at 100KHz, 105°C)
2.5V(0E)	2.8	330	6.3X8	0.10	500	7	5,600
		470	6.3X8	0.10	500	7	
		560	6.3X8	0.10	500	7	
		820	6.3X8	0.10	500	7	
4V(0G)	4.6	560	6.3X8	0.10	500	7	5,000
6.3V(0J)	7.2	390	8X11.5	0.15	491	15	4,210
		470	6.3X8	0.10	592	8	4,700
			8X11.5	0.15	592	15	4,210
		560	6.3X8	0.10	706	8	4,700
		820	10X12	0.15	1,033	12	4,360
10V(1A)	12.0	330	8X11.5	0.12	660	17	3,950
		560	10X12	0.12	1,360	16	4,720
16V(1C)	18.0	180	8X11.5	0.12	576	20	3,640
		270	6.3X8	0.12	864	15	3,800
		330	10X12	0.12	1,056	16	4,720
20V(1D)	23.0	100	8X11.5	0.12	400	28	2,300
		330	10X12	0.12	1,320	26	2,800
25V(1E)	29.0	100	8X11.5	0.12	500	28	2,200
		270	10X12	0.12	1,350	27	2,700
35V(1V)	40.0	68	8X11.5	0.12	476	29	2,200
		150	10X12	0.12	1,050	28	2,600

•Case size Φ D XL(mm), ripple current (mA rms) at 105°C, 100KHz •尺寸Φ D XL(mm), 纹波电流 (mA rms) 于105°C, 100KHz

□ Ripple Current and Frequency Multipliers 纹波电流与频率补正系数

Frequeny 频率	120HZ	1KHZ	10KHZ	100KHZ~
Multipliers 补正系数	0.05	0.30	0.70	1.00

Note: All design and specifications are for reference only and is subject to change without prior notice. If any doubt about safety for your application, please contact us immediately for technical assistance before purchase.

注：以上所提供的设计及特性参数谨供参考，任何修改不作预先通知。如果在使用上有疑问，请在采购前与我们联系，以便提供技术上的协助。