

DOWN SIZE

缩小品

- 105°C 2000hours assured
105°C 2000H 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

New
新品

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	22~2700								
Capacitance Tolerance 额定容量容许误差值	±20% at 120Hz, 20°C								
Dissipation Factor (Tanδ) 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	After 2000Hrs. 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2000小时后, 返回20°C进行测试时, 满足以下项目 <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>Tanδ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%	Tanδ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
Capacitance Change 静电容量变化率	Within ±20% of initial value ≤初始值的±20%								
Tanδ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								
Moisture Resistance 耐湿无负荷	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 <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>Tanδ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%	Tanδ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
Capacitance Change 静电容量变化率	Within ±20% of initial value ≤初始值的±20%								
Tanδ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								
Resistance to Soldering Heat 焊锡耐热性	After reflow soldering and restored at room temperature, they meet the characteristics listed below. 经过回流焊并冷却至室温后, 电容器的特性符合下表的要求。 <table border="1"> <tr> <td>Capacitance Change 静电容量变化率</td><td>Within ±10% of initial value ≤初始值的±10%</td></tr> <tr> <td>Tanδ损失角</td><td>Less than 130% of specified value ≤初始值的130%</td></tr> <tr> <td>ESR 等效串联电阻</td><td>Less than 130% of specified value ≤初始值的130%</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 ±10% of initial value ≤初始值的±10%	Tanδ损失角	Less than 130% of specified value ≤初始值的130%	ESR 等效串联电阻	Less than 130% of specified value ≤初始值的130%	Leakage Current漏电流	Within specified value ≤初始规格值
Capacitance Change 静电容量变化率	Within ±10% of initial value ≤初始值的±10%								
Tanδ损失角	Less than 130% of specified value ≤初始值的130%								
ESR 等效串联电阻	Less than 130% of specified value ≤初始值的130%								
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

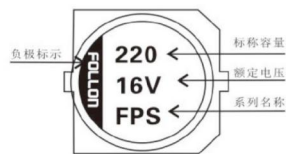
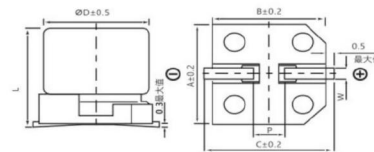


Diagram of Dimensions 尺寸图



DIMENSIONS (Unit: mm) 尺寸表

尺寸	5X5.8	6.3X6.0	6.3X7.7	8X7	8X10	8X12	10X7.7	10X10	10X12.6
ΦD	5.0	6.3	6.3	8.0	8.0	8.0	10.0	10.0	10.0
L	5.8±0.3	6.0±0.1/-0.3	7.7±0.3	6.9±0.1/-0.4	10.0±0.5	12±0.5	7.7±0.3	9.9±0.1/-0.4	12.6±0.1/-0.4
A	5.3	6.6	6.6	8.3	8.3	8.3	10.3	10.3	10.3
B	5.3	6.6	6.6	8.3	8.3	8.3	10.3	10.3	10.3
C	5.9	7.2	7.2	9.0	9.0	9.0	11.0	11.0	11.0
P±0.2	1.5	2.0	2.0	3.1	3.1	3.1	4.6	4.6	4.6
W	0.5~0.8	0.5~0.8	0.5~0.8	0.7~1.1	0.7~1.1	0.7~1.1	0.7~1.3	0.7~1.3	0.7~1.3



Specifications 标准品一览表

Rated Volt.(V)	Surge Voltage(V)	Capacitance(μF)	Size ΦDXL (mm)	Tanδ 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	180	6.3X6.0	0.12	300	19	2,800
		390	6.3X6.0	0.12	300	14	3,160
		560	6.3X6.0	0.12	300	16	3,500
			6.3X7.7	0.12	420	9	4,200
		680	8X7.0	0.12	500	20	3,370
		820	8X12	0.15	500	9	5,380
		1,200	10X7.7	0.12	600	13	4,450
		1,500	8X12	0.15	750	12	5,150
		2,200	10X10	0.12	1,100	10	5,500
4V(0G)	4.6	2,700	10X12.6	0.15	1,350	9	5,600
		150	5X5.8	0.12	300	20	2,730
		270	6.3X6.0	0.12	300	15	3,160
		330	6.3X6.0	0.12	300	15	3,160
		390	6.3X7.7	0.12	468	9	4,200
		560	8X7.0	0.12	500	22	3,220
			8X12	0.15	500	9	5,380
		1,000	10X7.7	0.12	800	14	4,300
		1,200	8X12	0.15	960	12	4,700
			10X10	0.12	960	10	5,500
		1,500	8X12	0.15	1,200	12	4,700
			10X10	0.12	1,200	10	5,500
		1,800	10X10	0.12	1,440	10	5,500
			10X12.6	0.12	1,440	9	5,600
		2,200	10X12.6	0.15	1,760	9	5,700
6.3V(0J)	7.2	120	5X5.8	0.12	300	21	2,660
		220	6.3X6.0	0.12	500	15	3,160
		330	6.3X6.0	0.12	300	17	3,390
			6.3X7.7	0.12	415	9	4,200
		390	10X10	0.12	623	22	3,220
		820	8X12	0.15	691	13	4,700
			10X7.7	0.12	1,033	14	4,300
		1,200	10X10	0.12	1,512	12	5,025
		1,500	10X10	0.12	1,890	12	5,025
			10X12.6	0.15	1,890	10	5,560
10V(1A)	12.0	1,800	10X12.6	0.15	2,268	11	5,200
		68	5X5.8	0.12	300	23	2,540
		120	6.3X6.0	0.12	300	22	2,600
		150	6.3X7.7	0.12	450	15	3,400
		220	8X7.0	0.12	440	22	3,220
		270	8X7.0	0.12	500	22	3,220
		390	8X10	0.12	780	17	4,000
		470	10X7.7	0.12	940	19	3,800
		680	10X10	0.12	1,056	13	4,820

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

Specifications 标准品一览表

Rated Volt.(V)	Surge Voltage(V)	Capacitance(μF)	Size ΦDXL (mm)	Tanδ 120Hz, 20°C	LC(μA) 2minutes	ESR (mΩ) 20°C 100KHZ	Rated R.C (mA/rms at 100KHz,105°C)
16V(1C)	18.0	39	5X5.8	0.12	300	27	2,350
			6.3X6.0	0.12	300	24	2,460
		68	6.3X6.0	0.12	300	25	2,440
		82	6.3X7.7	0.12	262	24	2,700
		100	6.3X6.0	0.12	320	24	2,490
			6.3X7.7	0.12	320	24	2,700
			8X7.0	0.12	320	24	3,010
		120	8X7.0	0.12	384	24	3,010
		150	8X7.0	0.12	500	22	3,220
		180	8X10	0.12	576	18	3,890
		220	8X10	0.12	704	18	3,890
			10X7.7	0.12	704	22	3,450
		270	8X12	0.15	864	12	4,850
		330	10X10	0.12	1,056	16	4,350
			10X12.6	0.15	1,056	12	5,300
		470	10X12.6	0.15	1,504	10	6,100
20V(1D)	23.0	820	10X12.6	0.12	2,624	12	5,400
		1,000	10X12.6	0.12	3,200	12	5,400
		120	6.3X6.0	0.12	480	25	3,200
		390	8X12	0.12	1,560	14	4,950
25V(1E)	29.0	560	10X10	0.12	2,240	18	4,100
			10X12.6	0.12	2,240	12	5,600
		56	6.3X6.0	0.12	280	30	2,800
		180	8X12	0.12	900	16	4,650
35V(1V)	40.0	220	10X10	0.12	1,100	20	3,800
		330	10X12.6	0.12	1,650	14	5,000
		22	6.3X6.0	0.12	154	35	2,600
		82	8X12	0.12	574	20	4,000
		120	10X12.6	0.12	840	18	4,400

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

Ripple Current and Frequency Multipliers 纹波电流与频率修正系数

Frequency 频率	120HZ	1KHZ	10KHZ	100KHZ~
Multipliers 修正系数	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