## DOWN SIZE
## 缩小品

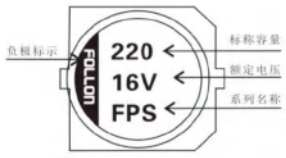
New 新品

- 105℃ 2000hours assured
  105℃ 2000H 寿命保证
- Ultea 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

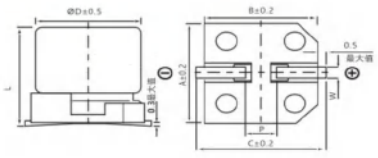

**pecifications 特性表**

| Items 项目 | Characteristics 主要特性 |
|---|---|
| Operation Temperature Range 使用温度范围 | -55℃~105℃ |
| 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℃ |
| 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℃,returned to 20℃ for testing, they meet the characteristics listed below.<br>在105℃ 下连续施加额定电压2000小时后，返回20℃进行测试时，满足以下项目<br>Capacitance Change 静电容量变化率: Within ±20% of initial value ≤初始值的±20%<br>Tanδ损失角: Less than 150% of specified value ≤初始值的150%<br>ESR 等效串联电阻: Less than 150% of specified value ≤初始值的150%<br>Leakage Current漏电流: Within specified value ≤初始规格值 |
| Moisture Resistance<br>耐湿无负荷 | After 1000 hours in an environment of 60℃, 90~95% humidity, return to 20℃ for testing. they meet the characteristics listed below.<br>在60℃，湿度90~95%环境中1000H后，返回20℃进行测试，需满足以下项目<br>Capacitance Change 静电容量变化率: Within ±20% of initial value ≤初始值的±20%<br>Tanδ损失角: Less than 150% of specified value ≤初始值的150%<br>ESR 等效串联电阻: Less than 150% of specified value ≤初始值的150%<br>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.<br>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.<br>Capacitance Change 静电容量变化率: Within ±10% of initial value ≤初始值的±10%<br>Tanδ损失角: Less than 130% of specified value ≤初始值的130%<br>ESR 等效串联电阻: Less than 130% of specified value ≤初始值的130%<br>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




### Diagramof 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 |

## Speifications 标准品一览表

| Rated Volt.(V) | Surge Voltage(V) | Capacitance(μF) | Size ΦDXL (mm) | Tanδ 120Hz, 20℃ | LC(μA) 2minutes | ESR (mΩ) 20℃ 100KHZ | Rated R.C (mA/rms at 100KHz,105℃) |
|---|---|---|---|---|---|---|---|
| 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 |
| | | 2,700 | 10X12.6 | 0.15 | 1,350 | 9 | 5,600 |
| 4V(0G) | 4.6 | 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 |
| | | 1,800 | 10X12.6 | 0.15 | 2,268 | 11 | 5,200 |
| 10V(1A) | 12.0 | 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℃,100KHz •尺寸ΦD XL(mm)，纹波电流（mA rms）于105℃,100KHz

## Speifications 标准品一览表

| Rated Volt.(V) | Surge Voltage(V) | Capacitance(μF) | Size ΦDXL (mm) | Tanδ 120Hz, 20℃ | LC(μA) 2minutes | ESR (mΩ) 20℃ 100KHZ | Rated R.C (mA/rms at 100KHz,105℃) |
|---|---|---|---|---|---|---|---|
| 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 |
| | | 820 | 10X12.6 | 0.12 | 2,624 | 12 | 5,400 |
| | | 1,000 | 10X12.6 | 0.12 | 3,200 | 12 | 5,400 |
| 20V(1D) | 23.0 | 120 | 6.3X6.0 | 0.12 | 480 | 25 | 3,200 |
| | | 390 | 8X12 | 0.12 | 1,560 | 14 | 4,950 |
| | | 560 | 10X10 | 0.12 | 2,240 | 18 | 4,100 |
| | | | 10X12.6 | 0.12 | 2,240 | 12 | 5,600 |
| 25V(1E) | 29.0 | 56 | 6.3X6.0 | 0.12 | 280 | 30 | 2,800 |
| | | 180 | 8X12 | 0.12 | 900 | 16 | 4,650 |
| | | 220 | 10X10 | 0.12 | 1,100 | 20 | 3,800 |
| | | 330 | 10X12.6 | 0.12 | 1,650 | 14 | 5,000 |
| 35V(1V) | 40.0 | 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℃,100KHz ●尺寸ΦD XL(mm)，纹波电流（mA rms）于105℃,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 pu rchase

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