

ULTRA LONG LIFE 超长寿命品

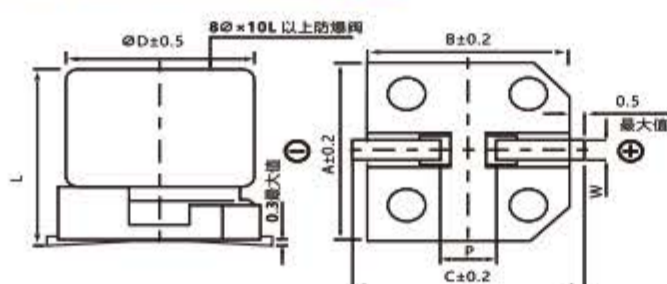
- Wide temperature range -55~+105°C
适用于 -55~+105°C 的宽温范围
- Load life of 3000~5000 hours
负荷寿命3000~5000 小时
- Comply with the RoHS directive
符合 RoHS 指令



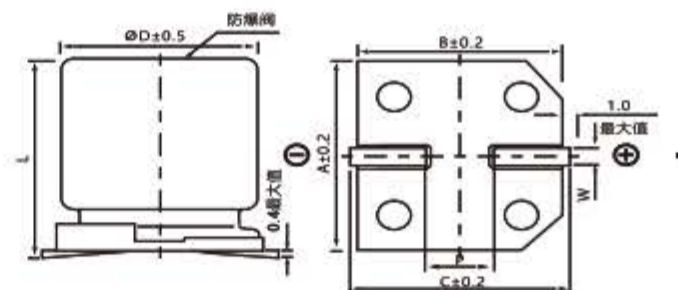
SPECIFICATIONS 特性表

| Items 项目 | Characteristics 主要特性 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|----------------------------|---|--------------------------|---|---------------------|--|--------|-------------|---------------------|--------|----------------------|------|------|------|------|---------|----------------------|------|------|------|------|------|---------------|-----------|----------------------|---|---|---|---|---|----------------------|----|----|---|---|---|---|
| Operation Temperature Range 使用温度范围 | -55 ~ +105°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Voltage Range 额定工作电压范围 | 6.3 ~ 100V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Range 静电容量范围 | 0.1 ~ 3300 μ F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerancø 静电容量允许偏差 | ± 20% at 120Hz, 20°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current 漏电流 | Leakage current (ø4~ø10) ≤ 0.01CV or 3 μ A, whichever is greater (after 2 minutes application of rated voltage) Leakage current (ø12.5~ø16) ≤ 0.03CV or 4 μ A, whichever is greater (after 2 minute application of rated voltage) 漏电流 (ø4~ø10) ≤ 0.01CV 或 3 μ A, 取较大值 (施加额定工作电压 2 分钟后) 漏电流 (ø12.5~ø16) ≤ 0.03CV 或 4 μ A, 取较大值 (施加额定工作电压 2 分钟后) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(tan δ) 损耗角正切 | Measurement frequency 测试频率: 120Hz, Temperature 温度: 20°C <table border="1"> <tr> <td>Rated Voltage (V) 额定工作电压</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50~100</td> </tr> <tr> <td>tan δ(max.)</td> <td>ø4~ø10</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> </tr> <tr> <td>最大损耗角正切</td> <td>ø12.5~ø16</td> <td>0.38</td> <td>0.34</td> <td>0.30</td> <td>0.28</td> <td>0.22</td> <td>0.18</td> </tr> </table> | Rated Voltage (V) 额定工作电压 | 6.3 | 10 | 16 | 25 | 35 | 50~100 | tan δ(max.) | ø4~ø10 | 0.30 | 0.24 | 0.20 | 0.18 | 0.16 | 0.14 | 最大损耗角正切 | ø12.5~ø16 | 0.38 | 0.34 | 0.30 | 0.28 | 0.22 | 0.18 | | | | | | | | | | | | | | |
| Rated Voltage (V) 额定工作电压 | 6.3 | 10 | 16 | 25 | 35 | 50~100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| tan δ(max.) | ø4~ø10 | 0.30 | 0.24 | 0.20 | 0.18 | 0.16 | 0.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 最大损耗角正切 | ø12.5~ø16 | 0.38 | 0.34 | 0.30 | 0.28 | 0.22 | 0.18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stability at Low Temperature 低温特性 | Measurement frequency 测试频率: 120Hz <table border="1"> <tr> <td colspan="2">Rated Voltage (V 额定工作电压)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50~100</td> </tr> <tr> <td rowspan="2">Impedance Ratio 阻抗比</td> <td rowspan="2">ø4~ø10</td> <td>Z(-25° C) / Z(20° C)</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-55° C) / Z(20° C)</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> </tr> <tr> <td rowspan="2">ZT/Z20 (max.)</td> <td rowspan="2">ø12.5~ø16</td> <td>Z(-25° C) / Z(20° C)</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-55° C) / Z(20° C)</td> <td>12</td> <td>10</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> </tr> </table> | Rated Voltage (V 额定工作电压) | | 6.3 | 10 | 16 | 25 | 35 | 50~100 | Impedance Ratio 阻抗比 | ø4~ø10 | Z(-25° C) / Z(20° C) | 3 | 3 | 2 | 2 | 2 | Z(-55° C) / Z(20° C) | 8 | 5 | 4 | 3 | 3 | ZT/Z20 (max.) | ø12.5~ø16 | Z(-25° C) / Z(20° C) | 5 | 4 | 3 | 2 | 2 | Z(-55° C) / Z(20° C) | 12 | 10 | 8 | 5 | 4 | 3 |
| Rated Voltage (V 额定工作电压) | | 6.3 | 10 | 16 | 25 | 35 | 50~100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Impedance Ratio 阻抗比 | ø4~ø10 | Z(-25° C) / Z(20° C) | 3 | 3 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z(-55° C) / Z(20° C) | 8 | 5 | 4 | 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZT/Z20 (max.) | ø12.5~ø16 | Z(-25° C) / Z(20° C) | 5 | 4 | 3 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z(-55° C) / Z(20° C) | 12 | 10 | 8 | 5 | 4 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Load Life 高温负荷特性 | After 5000 hrs. (3000 hrs. for ø4~ø6.3 × 5.8) application of the rated voltage at 105°C, they meet the characteristics listed below. 在 105° C 环境中施加额定工作电压5000 小时 (ø4~ø6.3 × 5.8 为 3000 小时) 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 ± 30% of initial value 初始值的 ±30%以内</td> </tr> <tr> <td>Dissipation Factor 损耗角正切</td> <td>300% or less of initial specified value 不大于规范值的300%</td> </tr> <tr> <td>Leakage Current 漏电流</td> <td>initial specified value or less 不大于规范值</td> </tr> </table> | Capacitance Change 静电容量变化率 | Within ± 30% of initial value 初始值的 ±30%以内 | Dissipation Factor 损耗角正切 | 300% or less of initial specified value 不大于规范值的300% | Leakage Current 漏电流 | initial specified value or less 不大于规范值 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Change 静电容量变化率 | Within ± 30% of initial value 初始值的 ±30%以内 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor 损耗角正切 | 300% or less of initial specified value 不大于规范值的300% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current 漏电流 | initial specified value or less 不大于规范值 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shelf Life 高温贮存特性 | After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above. 在105°C 环境中无负荷放置1000小时后, 电容器的特性符合高温负荷特性中所列的规定值。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resistance to Soldering Heat 耐焊接热特性 | 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%以内</td> </tr> <tr> <td>Dissipation Factor 损耗角正切</td> <td>initial specified value or less 不大于规范值</td> </tr> <tr> <td>Leakage Current 漏电流</td> <td>initial specified value or less 不大于规范值</td> </tr> </table> | Capacitance Change 静电容量变化率 | Within ± 10% of initial value 初始值的 ±10%以内 | Dissipation Factor 损耗角正切 | initial specified value or less 不大于规范值 | Leakage Current 漏电流 | initial specified value or less 不大于规范值 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Change 静电容量变化率 | Within ± 10% of initial value 初始值的 ±10%以内 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor 损耗角正切 | initial specified value or less 不大于规范值 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current 漏电流 | initial specified value or less 不大于规范值 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marking 标识 | Black print on the case top. 铝壳顶部黑字印刷。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Diagram of Dimensions 尺寸图



ΦD=4~10 适用



Φ 12.5 以上适用

DIMENSIONS (Unit: mm) 尺寸表

| DXL | 4X5.8 | 5X5.8 | 6.3X5.8 | 6.3X7.7 | 8X10.5 | 10X10.5 | 10X13.5 | 12.5X13.5 | 12.5X16 | 16X16.5 |
|-------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|----------|------------|
| A | 4.3 | 5.3 | 6.6 | 6.6 | 8.3 | 10.3 | 10.3 | 13.0 | 13.0 | 17.0 |
| B | 4.3 | 5.3 | 6.6 | 6.6 | 8.3 | 10.3 | 10.3 | 13.0 | 13.0 | 17.0 |
| C | 5.1 | 5.9 | 7.2 | 7.2 | 9.2 | 11.2 | 11.2 | 13.7 | 13.7 | 18.0 |
| P±0.2 | 1.0 | 1.5 | 2.0 | 2.0 | 3.1 | 4.4 | 4.4 | 4.4 | 4.4 | 6.4 |
| L | 5.8 ± 0.3 | 5.8 ± 0.3 | 5.8 ± 0.3 | 7.7 ± 0.3 | 10.5 ± 0.5 | 10.5 ± 0.5 | 13.5 ± 0.5 | 13.5 ± 0.5 | 16 ± 0.5 | 16.5 ± 0.5 |

□ DRAWING (Unit: mm) 外形图



□ DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT 规格尺寸及最大允许纹波电流

| μF | WV Code 代码 | 6.3 | | 10 | | 16 | | 25 | |
|------|------------------|----------------------------|--------------|----------------------------|--------------|-------------|-----|----------------------------|------------------------|
| | | 0J | | 1A | | 1C | | 1E | |
| 10 | 100 | | | | | 4 × 5.8 | 18 | 5 × 5.8 | 27 |
| 22 | 220 | 4 × 5.8 | 22 | 5 × 5.8 | 30 | 5 × 5.8 | 30 | 6.3 × 5.8 | 44 |
| 33 | 330 | 5 × 5.8 | 35 | 5 × 5.8 | 36 | 6.3 × 5.8 | 48 | 6.3 × 5.8 | 50 |
| 47 | 470 | 5 × 5.8 | 38 | 6.3 × 5.8 | 50 | 6.3 × 5.8 | 50 | 6.3 × 7.7 | 63 |
| 100 | 101 | 6.3 × 5.8 | 69 | 6.3 × 7.7 | 81 | 6.3 × 7.7 | 81 | 8 × 10.5 | 116 |
| 150 | 151 | 6.3 × 7.7 | 85 | 8 × 10.5 | 125 | 8 × 10.5 | 125 | 10 × 10.5 | 320 |
| 220 | 221 | 6.3 × 7.7 | 120 | 8 × 10.5 | 141 | 10 × 10.5 | 216 | 10 × 10.5 | 320 |
| 330 | 331 | 8 × 10.5 | 290 | 10 × 10.5 | 290 | 10 × 10.5 | 290 | 10 × 10.5 | 320 |
| 470 | 471 | 10 × 10.5 | 320 | 10 × 10.5 | 320 | 10 × 10.5 | 320 | 12.5 × 13.5 (10 × 13.5) | 400 (350) |
| 680 | 681 | 10 × 10.5 | 320 | 10 × 10.5 | 320 | 10 × 13.5 | 420 | 12.5 × 13.5 | 415 |
| 1000 | 102 | 10 × 10.5 | 410 | 10 × 13.5 | 390 | 12.5 × 13.5 | 550 | 12.5 × 13.5 | 460 |
| 1500 | 152 | 10 × 13.5 | 450 | 12.5 × 13.5 | 480 | 12.5 × 13.5 | 650 | 12.5 × 16 | 700 |
| 2200 | 222 | 12.5 × 13.5 | 680 | 12.5 × 16 (12.5 × 13.5) | 750 (510) | 16 × 16.5 | 800 | | |
| 3300 | 332 | 12.5 × 16 (12.5 × 13.5) | 850 (800) | 16 × 16.5 | 800 | | | Case size 尺寸 | Ripple current 纹波电流 |

| μF | WV Code 代码 | 35 | | 50 | | 63 | | 100 | |
|------|------------------|----------------------------|--------------|----------------------------|--------------|--------------------------|--------------|---|------------------------|
| | | 1V | | 1H | | 1J | | 2A | |
| 0.1 | 0R1 | | | 4 × 5.8 | 1.0 | | | | |
| 0.22 | R22 | | | 4 × 5.8 | 2.6 | | | | |
| 0.33 | R33 | | | 4 × 5.8 | 3.2 | | | | |
| 0.47 | R47 | | | 4 × 5.8 | 5 | | | | |
| 1 | 010 | | | 4 × 5.8 | 8 | | | | |
| 2.2 | 2R2 | | | 4 × 5.8 | 12 | | | | |
| 3.3 | 3R3 | | | 4 × 5.8 | 17 | | | 6.3 × 7.7 | 30 |
| 4.7 | 4R7 | 4 × 5.8 | 16 | 5 × 5.8 | 22 | | | 8 × 10.5 | 50 |
| 10 | 100 | 5 × 5.8 | 27 | 6.3 × 5.8 | 32 | 6.3 × 7.7 | 45 | 8 × 10.5 | 55 |
| 22 | 220 | 6.3 × 5.8 | 44 | 6.3 × 7.7 | 58 | 8 × 10.5 | 65 | 10 × 10.5 | 70 |
| 33 | 330 | 6.3 × 7.7 | 57 | 8 × 10.5 | 140 | 10 × 10.5 | 80 | 10 × 10.5 | 80 |
| 47 | 470 | 8 × 10.5 | 92 | 10 × 10.5 | 310 | 10 × 10.5 | 90 | 12.5 × 13.5 (10 × 13.5) | 250 (150) |
| 100 | 101 | 10 × 10.5 | 151 | 10 × 10.5 | 310 | 10 × 13.5 | 150 | 12.5 × 13.5 | 300 |
| 150 | 151 | 10 × 10.5 | 290 | 10 × 10.5 | 310 | | | 16 × 16.5 (12.5 × 16) (12.5 × 13.5) | 600 (420) (380) |
| 220 | 221 | 10 × 10.5 | 375 | 12.5 × 13.5 (10 × 13.5) | 340 (320) | 12.5 × 13.5 | 470 | | |
| 330 | 331 | 12.5 × 13.5 (10 × 13.5) | 380 (375) | 12.5 × 16 (12.5 × 13.5) | 600 (500) | 16 × 16.5 (12.5 × 16) | 650 (550) | | |
| 470 | 471 | 12.5 × 13.5 | 520 | 16 × 16.5 | 700 | | | | |
| 680 | 681 | 12.5 × 13.5 | 550 | | | | | | |
| 1000 | 102 | 16 × 16.5 (12.5 × 16) | 750 (600) | | | | | Case size 尺寸 | Ripple current 纹波电流 |

•Case size $\varnothing D \times L$ (mm), ripple current (mA rms) at 105°C, 120Hz •尺寸 $\varnothing D \times L$ (mm), 纹波电流(mA rms)于105°C, 120Hz

□ FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT 纹波电流频率补偿系数

| Frequency 频率 | | 50Hz | 120Hz | 300Hz | 1KHz | 10KHz~ | |
|-------------------|---------------|--------------|-------|-------|------|--------|------|
| Coefficient 系数 | ∅ 4 ~ ∅ 10 | 0.70 | 1.00 | 1.17 | 1.36 | 1.50 | |
| | ∅ 12.5 ~ ∅ 16 | ~ 68μF | 0.75 | 1.00 | 1.35 | 1.57 | 2.00 |
| | | 100~ 470μF | 0.80 | 1.00 | 1.23 | 1.34 | 1.50 |
| | | 680 ~ 3300μF | 0.85 | 1.00 | 1.10 | 1.13 | 1.15 |

● The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 10 °C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

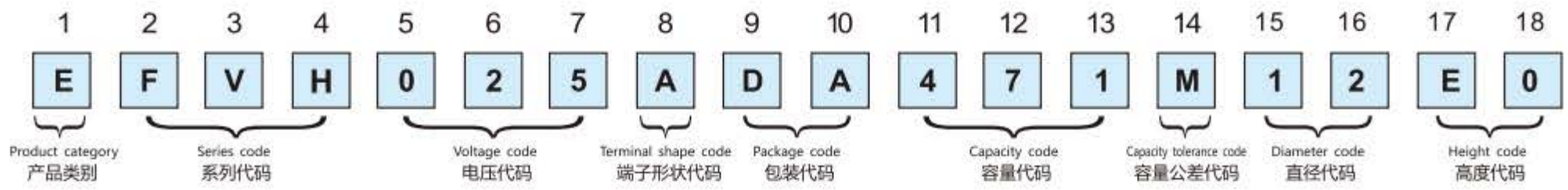
● 铝电解电容器由于在纹波电流叠加时自我发热，温度上升而老化，每升温10 °C寿命减少一半；要想保持长寿命请在使用过程中降低纹波电流。

● Taping specifications are given in page 17 "Taping Specifications". 编带标准请参阅第 17 页“编带标准”。

● Please refer to page 18 "Package Quantity" for the minimum package quantity. 最小包装数量请参阅第 18 页“包装数量”。

FVG | Chip Type 贴片式

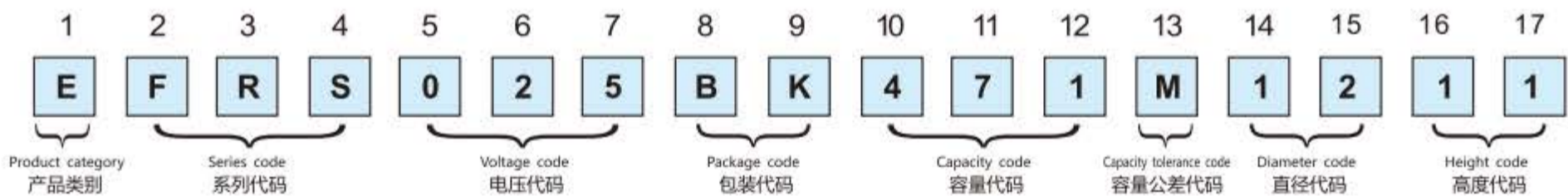
SMD EXPLANATION OF PART NUMBERS 贴片产品编码规则



| (2, 3, 4) | | | (5, 6, 7) | | (11, 12, 13) | | (14) | | (8) | | (15, 16) | | (17, 18) | |
|--------------|---------------------|------------|--------------------------|------------|---------------------------|------------|---------------------------|--|------------|--------------------|------------|-------------------|------------|--|
| Series 系列 | Voltage (w.v) 电压 | Code 代码 | Capacitance (uF) 静电容量 | Code 代码 | Cap.Tolerance (%) 容量允许 | Code 代码 | Tape 端子类型 | | Code 代码 | Diameter (□) 直径 | Code 代码 | Length (mm) 高度 | Code 代码 | |
| FVE | 4 | 4R0 | 0.1 | 0R1 | ±10 | K | No dummy terminal 无辅助端子 | | A | 4 | 04 | 4.5 | 45 | |
| FVH | 6.3 | 6R3 | 0.22 | R22 | ±20 | M | With dummy terminal 有辅助端子 | | G | 5 | 05 | 5.4 | 54 | |
| FVA | 10 | 010 | 1 | 010 | | | | | | 6.3 | 06 | 5.8 | 58 | |
| FVZ | 16 | 016 | 4.7 | 4R7 | | | | | | 8 | 08 | 6.5 | 65 | |
| FVR | 25 | 025 | 10 | 100 | | | | | | 10 | 10 | 7.7 | 77 | |
| FVL | 35 | 035 | 47 | 470 | | | | | | 12.5 | 12 | 10.2 | A0 | |
| FVM | 50 | 050 | 100 | 101 | | | | | | 16 | 16 | 10.5 | B0 | |
| FVU | 63 | 063 | 470 | 471 | | | | | | 18 | 18 | 13.5 | E0 | |
| FVG | 100 | 100 | 1000 | 102 | | | | | | | | 16 | G5 | |
| FVB | 160 | 160 | 4700 | 472 | | | | | | | | 16.5 | H0 | |
| FVN | 250 | 250 | 10000 | 103 | | | | | | | | 21.5 | N0 | |
| FVD | 350 | 350 | | | | | | | | | | | | |
| FVC | 400 | 400 | | | | | | | | | | | | |

| (9, 10) | | | | |
|--------------------|---------------------------|------------------|--------|------------|
| Packaging 包装要求 | External diameter 纸盘外径 | Fit size 适合尺寸 | | Code 代码 |
| | | □(mm) | □D(mm) | |
| Paper tray 纸盘 | 380 | ∅D4~18 | | DA |
| | 330 | ∅D4~18 | | DB |
| Glue tray 胶盘 | 380 | ∅D4~10 | | RA |
| Blister box 吸塑盒 | - | ∅D12.5~18 | | TR |

Radial EXPLANATION OF PART NUMBERS 插件产品编码规则



| (2, 3, 4) | | | (5, 6, 7) | | (10, 11, 12) | | (13) | | (8, 9) | | (14, 15) | | (16, 17) | |
|--------------|---------------------|------------|--------------------------|------------|---------------------------|------------|-------------------------|--|------------|--------------------|------------|-------------------|------------|--|
| Series 系列 | Voltage (w.v) 电压 | Code 代码 | Capacitance (uF) 静电容量 | Code 代码 | Cap.Tolerance (%) 容量允许 | Code 代码 | Packaging 包装形式 | | Code 代码 | Diameter (∅) 直径 | Code 代码 | Length (mm) 高度 | Code 代码 | |
| FRA | 4 | 4R0 | 0.1 | 0R1 | ±10 | K | Long-legged bulk 长脚散装 | | BK | 4 | 04 | 4.5 | 04 | |
| FRS | 6.3 | 6R3 | 0.22 | R22 | ±20 | M | Long-legged taping 长脚编带 | | BA | 5 | 05 | 5.5 | 05 | |
| FRU | 10 | 010 | 1 | 010 | | | | | | 6.3 | 06 | 6.0 | 06 | |
| FRK | 16 | 016 | 4.7 | 4R7 | | | | | | 8 | 08 | 6.5 | 06 | |
| FBR | 25 | 025 | 10 | 100 | | | | | | 10 | 10 | 7.0 | 07 | |
| FBU | 35 | 035 | 47 | 470 | | | | | | 12.5 | 12 | 8.0 | 08 | |
| | 50 | 050 | 100 | 101 | | | | | | 16 | 16 | 10 | 10 | |
| | 63 | 063 | 470 | 471 | | | | | | 18 | 18 | 11 | 11 | |
| | 100 | 100 | 1000 | 102 | | | | | | | | 11.5 | 11 | |
| | 160 | 160 | 4700 | 472 | | | | | | | | 12 | 12 | |
| | 250 | 250 | 10000 | 103 | | | | | | | | 16 | 16 | |
| | 350 | 350 | | | | | | | | | | | | |
| | 400 | 400 | | | | | | | | | | | | |

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