

### HV series Low Leakage Current

#### Features (特点)

★Designed for surface mounting on high density PC board , Applicable to automatic mounting machine using emboss carrier tape

用于高密度表面贴装，吸塑载带封装成盘后用于自动机贴装

★Low ESR at high frequency range & Large permissible ripple current  
(在高频范围内的低ESR，允许大纹波电流)

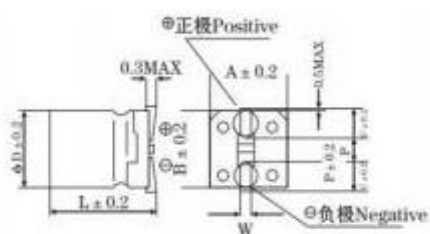
#### Specifications (产品规格)

| item<br>项目   | Performance Characteristics<br>性能 特点           |  |
|--|--|--|
| Operating Temperature Range<br>工作温度范围  | -55~+105° C                                    |  |
| Rated Voltage Range<br>额定电压范围  | 2.5~80vdc                                      |  |
| Capacitance Tolerance (容量公差)   | ±20% (120Hz, +20° C)                           |  |
| Leakage Current (+20° C max)<br>漏电流  | ≤0.2cv (uA.After 2 minutes)<br>充电2分钟后漏电流≤0.2vc |  |
| Dissipation Factor (损耗系数)<br>tan δ at 20° C, 120Hz                                       | Not to exceed the value specified<br>不超过指定值    |  |
| ESR(100KHz)  | Not to exceed the value specified<br>不超过指定值    |  |
| Endurance (耐久性)<br>105° C, 2000H at rated voltage<br>105° C 2000h 不超过额定电压                | Capacitance Change                             | Within ±20% of the value before test<br>测试前的值的±20%以内     |
|  | Leakage Current                                | Not to exceed the value specified<br>不超过指定值              |
|  | ESR  | Not to exceed 150% of the value specified<br>不超过指定值的150% |
|  | Dissipation Factor                             | Not to exceed 150% of the value specified<br>不超过指定值的150% |
| Moisture Resistance (耐湿性)<br>Stored at 60° C, RH90~95% 2000H<br>存放在60° C, RH90~95% 2000h | Capacitance Change                             | Within ±20% of the value before test<br>测试前的值的±20%以内     |
|  | Leakage Current                                | Not to exceed the value specified<br>不超过指定值              |
|  | ESR  | Not to exceed 150% of the value specified<br>不超过指定值的150% |
|  | Dissipation Factor                             | Not to exceed 150% of the value specified<br>不超过指定值的150% |

#### Srequency Coefficient For Ripple Current (纹波电流的频率系数)

| Frequency   | 120Hz ≤ freq. < 10KHz | 1KHz ≤ freq. < 10KHz | 10KHz ≤ freq. < 100KHz | 100KHz ≤ freq. < 300KHz |
|-------------|-----------------------|----------------------|------------------------|-------------------------|
| Coefficient | 0.05                  | 0.3                  | 0.7                    | 1                       |

▲尺寸图： MM



|   | 6.3×5.8 | 6.3×7.7 | 8×10.5  | 10×10.5 |
|---|---------|---------|---------|---------|
| A | 6.6     | 6.6     | 8.3     | 10.3    |
| B | 6.6     | 6.6     | 8.3     | 10.3    |
| C | 2.4     | 2.4     | 2.9     | 3.2     |
| P | 2.2     | 2.2     | 3.1     | 4.5     |
| L | 5.8     | 7.7     | 10.5    | 10.5    |
| W | 0.5-0.8 |         | 0.8-1.1 |         |

## HV Series

| WV<br>Cap (uf) | 2.5     | 6.3     | 10      | 16      | 25      | 35      | 50      | 63      | 80      |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 5.6            |         |         |         |         |         |         |         | 6.3×5.8 |         |
| 10             |         |         |         | 6.3×5.8 |         | 6.3×5.8 | 6.3×5.8 | 6.3×5.8 |         |
| 22             |         |         |         |         |         | 6.3×5.8 | 6.3×5.8 | 6.3×7.7 |         |
| 33             |         |         |         |         | 6.3×5.8 |         |         |         |         |
| 47             |         |         | 6.3×5.8 |         | 6.3×5.8 | 6.3×5.8 |         | 8×10.5  | 10×10.5 |
| 56             |         |         |         |         | 6.3×5.8 |         |         | 10×10.5 |         |
| 68             |         |         |         |         | 6.3×5.8 | 6.3×7.7 |         |         |         |
| 100            |         | 6.3×5.8 |         | 6.3×5.8 | 6.3×5.8 | 6.3×7.7 | 8×10.5  |         |         |
|                |         |         |         | 6.3×7.7 | 6.3×7.7 |         | 10×10.5 |         |         |
| 150            |         |         | 6.3×5.8 | 6.3×7.7 |         | 8×10.5  | 10×10.5 | 10×10.5 |         |
| 220            |         | 6.3×5.8 | 6.3×5.8 | 6.3×7.7 | 6.3×7.7 | 8×10.5  | 10×10.5 |         |         |
|                |         |         | 6.3×7.7 |         | 8×10.5  |         |         |         |         |
| 270            |         |         |         | 6.3×7.7 | 8×10.5  | 10×10.5 |         |         |         |
| 330            | 6.3×5.8 | 6.3×5.8 | 6.3×7.7 | 6.3×7.7 | 8×10.5  | 10×10.5 |         |         |         |
|                | 6.3×7.7 | 6.3×7.7 | 8×10.5  | 8×10.5  |         |         |         |         |         |
| 390            | 6.3×7.7 |         |         |         | 8×10.5  |         |         |         |         |
| 470            | 6.3×7.7 | 6.3×7.7 | 6.3×7.7 | 8×10.5  | 8×10.5  |         |         |         |         |
|                |         |         | 8×10.5  | 10×10.5 | 10×10.5 |         |         |         |         |
| 560            | 6.3×5.8 | 6.3×7.7 | 8×10.5  | 8×10.5  | 8×10.5  |         |         |         |         |
| 680            |         | 6.3×7.7 | 8×10.5  | 8×10.5  | 8×10.5  |         |         |         |         |
| 820            |         | 6.3×7.7 |         |         |         |         |         |         |         |
|                |         | 8×10.5  |         |         |         |         |         |         |         |
| 1000           |         | 8×10.5  | 8×10.5  | 10×10.5 |         |         |         |         |         |
|                |         |         | 10×10.5 |         |         |         |         |         |         |

## Dimensions &amp; Characteristics (尺寸及特征)

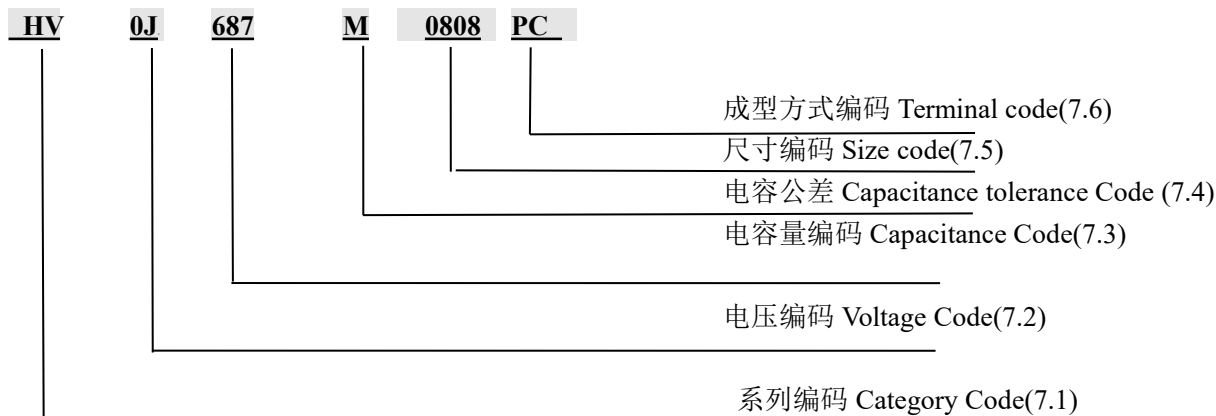
| W.V<br>(V) | Capacitance<br>(UF) | LC<br>(UA, 2min) | tg $\delta$<br>120HZ. 20° | ESR<br>M $\Omega$ , 100kHz | Maximun permissible<br>Current (mA, rms) | Size<br>$\Phi$ D×L(mm) |
|------------|---------------------|------------------|---------------------------|----------------------------|--|------------------------|
| 2.5        | 330                 | 165              | 0.10                      | 28                         | 2400                                     | 6.3×5.8                |
|            |                     | 165              | 0.10                      | 25                         | 2550                                     | 6.3×7.7                |
|            | 390                 | 165              | 0.10                      | 25                         | 2650                                     | 6.3×7.7                |
|            | 470                 | 235              | 0.10                      | 22                         | 2750                                     | 6.3×7.7                |
|            | 560                 | 280              | 0.10                      | 25                         | 2600                                     | 6.3×5.8                |
| 6.3        | 100                 | 126              | 0.12                      | 58                         | 1950                                     | 6.3×5.8                |
|            | 220                 | 277              | 0.12                      | 20                         | 2500                                     | 6.3×5.8                |
|            | 330                 | 415              | 0.12                      | 20                         | 3160                                     | 6.3×5.8                |
|            |                     | 415.8            | 0.12                      | 28                         | 3160                                     | 6.3×7.7                |
|            | 470                 | 592              | 0.12                      | 18                         | 3470                                     | 6.3×7.7                |
|            | 560                 | 705              | 0.12                      | 18                         | 3950                                     | 6.3×7.7                |
|            | 680                 | 857              | 0.12                      | 22                         | 4100                                     | 6.3×7.7                |
|            | 820                 | 1033             | 0.12                      | 22                         | 4250                                     | 6.3×7.7                |
|            |                     | 1033             | 0.12                      | 22                         | 4500                                     | 8×10.5                 |
| 1000       | 1260                | 0.12             | 18                        | 4500                       | 8×10.5                                   |                        |
| 10         | 47                  | 94               | 0.12                      | 45                         | 2250                                     | 6.3×5.8                |
|            | 150                 | 300              | 0.12                      | 22                         | 2950                                     | 6.3×5.8                |
|            | 220                 | 440              | 0.12                      | 38                         | 2950                                     | 6.3×5.8                |
|            | 220                 | 440              | 0.12                      | 38                         | 2150                                     | 6.3×7.7                |
|            | 330                 | 660              | 0.12                      | 35                         | 3100                                     | 6.3×7.7                |
|            | 470                 | 940              | 0.12                      | 32                         | 2920                                     | 6.3×7.7                |
|            |                     | 940              | 0.12                      | 35                         | 3890                                     | 8×10.5                 |
|            | 560                 | 1120             | 0.12                      | 35                         | 3950                                     | 8×10.5                 |
|            | 680                 | 1360             | 0.12                      | 32                         | 3950                                     | 8×10.5                 |
|            | 1000                | 2000             | 0.12                      | 35                         | 4500                                     | 8×10.5                 |
| 1000       | 2000                | 0.12             | 22                        | 4750                       | 10×10.5                                  |                        |
| 16         | 10                  | 32               | 0.12                      | 78                         | 740                                      | 6.3×5.8                |
|            | 100                 | 320              | 0.12                      | 55                         | 1850                                     | 6.3×5.8                |
|            | 100                 | 320              | 0.12                      | 35                         | 2650                                     | 6.3×7.7                |
|            | 150                 | 480              | 0.12                      | 35                         | 2700                                     | 6.3×7.7                |
|            | 220                 | 704              | 0.12                      | 22                         | 3470                                     | 6.3×7.7                |
|            | 270                 | 864              | 0.12                      | 35                         | 2840                                     | 6.3×7.7                |
|            | 330                 | 1056             | 0.12                      | 35                         | 2950                                     | 6.3×7.7                |
|            | 330                 | 1056             | 0.12                      | 28                         | 3550                                     | 8×10.5                 |
|            | 470                 | 1504             | 0.12                      | 18                         | 3890                                     | 8×10.5                 |
|            | 470                 | 1540             | 0.12                      | 28                         | 4500                                     | 10×10.5                |
|            | 560                 | 1792             | 0.12                      | 28                         | 3750                                     | 8×10.5                 |
|            | 680                 | 2176             | 0.12                      | 28                         | 3850                                     | 8×10.5                 |
|            | 1000                | 3200             | 0.12                      | 28                         | 5600                                     | 10×10.5                |

## Dimensions &amp; Characteristics (尺寸及特征)

| W. V | Capacitance | LC    | tg $\delta$ | ESR  | Maximun permissible | Size    |
|------|-------------|-------|-------------|------|---------------------|---------|
| 25   | 33          | 165   | 0.12        | 48   | 1650                | 6.3×5.8 |
|      | 47          | 235   | 0.12        | 45   | 2000                | 6.3×5.8 |
|      | 56          | 280   | 0.12        | 35   | 2500                | 6.3×5.8 |
|      | 68          | 340   | 0.12        | 45   | 2800                | 6.3×5.8 |
|      | 100         | 500   | 0.12        | 48   | 2540                | 6.3×5.8 |
|      |             | 500   | 0.12        | 40   | 2750                | 6.3×7.7 |
|      | 220         | 1100  | 0.12        | 35   | 2900                | 6.3×7.7 |
|      |             | 1100  | 0.12        | 38   | 3770                | 8×10.5  |
|      | 270         | 1350  | 0.12        | 38   | 4100                | 8×10.5  |
|      | 330         | 1650  | 0.12        | 35   | 4650                | 8×10.5  |
|      | 390         | 1950  | 0.12        | 38   | 3500                | 8×10.5  |
|      | 470         | 2350  | 0.12        | 38   | 4300                | 8×10.5  |
|      |             | 2350  | 0.12        | 35   | 4900                | 10×10.5 |
|      | 560         | 2800  | 0.12        | 38   | 4500                | 8×10.5  |
| 680  | 3400        | 0.12  | 35          | 4900 | 8×10.5              |         |
| 35   | 10          | 70    | 0.12        | 78   | 680                 | 6.3×5.8 |
|      | 22          | 154   | 0.12        | 58   | 1750                | 6.3×5.8 |
|      | 47          | 329   | 0.12        | 58   | 2150                | 6.3×5.8 |
|      | 68          | 476   | 0.12        | 48   | 1850                | 6.3×7.7 |
|      | 100         | 700   | 0.12        | 40   | 2860                | 6.3×7.7 |
|      | 150         | 1050  | 0.12        | 28   | 3200                | 8×10.5  |
|      | 220         | 1540  | 0.12        | 38   | 3890                | 8×10.5  |
|      | 270         | 1890  | 0.12        | 35   | 4700                | 10×10.5 |
|      | 330         | 2310  | 0.12        | 35   | 4900                | 10×10.5 |
| 50   | 10          | 100   | 0.12        | 78   | 550                 | 6.3×5.8 |
|      | 22          | 220   | 0.12        | 65   | 780                 | 6.3×5.8 |
|      | 100         | 1200  | 0.12        | 45   | 4650                | 10×10.5 |
|      | 150         | 1500  | 0.12        | 38   | 2650                | 10×10.5 |
|      | 220         | 2200  | 0.12        | 45   | 4900                | 10×10.5 |
| 63   | 5.6         | 70    | 0.12        | 120  | 380                 | 6.3×5.8 |
|      | 10          | 126   | 0.12        | 58   | 1650                | 6.3×5.8 |
|      | 22          | 277   | 0.12        | 58   | 640                 | 6.3×7.7 |
|      | 47          | 592.2 | 0.12        | 48   | 3000                | 8×10.5  |
|      | 56          | 705   | 0.12        | 48   | 980                 | 10×10.5 |
| 80   | 47          | 752   | 0.12        | 55   | 3250                | 10×10.5 |
|      | 150         | 1890  | 0.12        | 35   | 1650                | 10×10.5 |

# 物料编码表

## 1.物料编码 PART No. SYSTEM



### 1.1 系列编码 Series Code

|                  |    |
|------------------|----|
| 编码 Code          | HV |
| 系列编码 Series Code | HV |

### 1.2 电压编码 Voltage Code

|                       |     |    |     |     |    |    |    |    |    |    |
|-----------------------|-----|----|-----|-----|----|----|----|----|----|----|
| 编码 Code               | 0E  | 0G | 0J  | 0Q  | 1A | 1C | 1E | 1V | 1H | 1K |
| 电压编码 VoltageCode(W.V) | 2.5 | 4  | 6.3 | 7.5 | 10 | 16 | 25 | 35 | 50 | 80 |

### 1.3 电容公差 Capacitance tolerance

“M” 代表-20%~+20% “M” stands for -20%~+20%

### 1.4 容量编码 Capacitance Code

|                     |     |     |     |     |     |     |     |     |      |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 编码 Code             | 476 | 107 | 277 | 337 | 477 | 567 | 687 | 827 | 108  |
| 容量 Capacitance (uF) | 47  | 100 | 270 | 330 | 470 | 560 | 680 | 820 | 1000 |

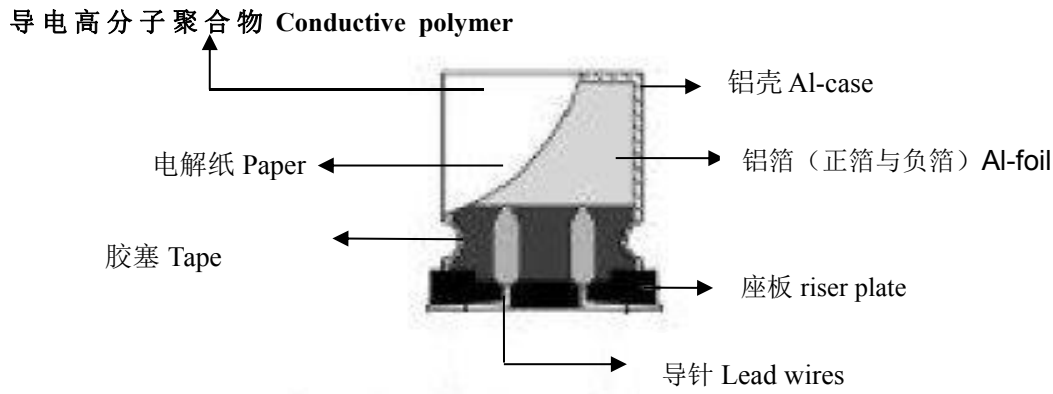
### 1.5 尺寸编码 Size Code

|           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 编码 Code   | 0507 | 0508 | 0509 | 0511 | 0607 | 0608 | 0609 | 0610 | 0611 | 0615 | 0808 | 0809 | 0811 | 0816 | 1010 | 1012 | 1212 |
| 直径 D (Φ)  | 5    | 5    | 5    | 5    | 6.3  | 6.3  | 6.3  | 6.3  | 6.3  | 6.3  | 8    | 8    | 8    | 8    | 10   | 10   | 12   |
| 高度 H (mm) | 7    | 8    | 9    | 11   | 7    | 8    | 9    | 10   | 11.5 | 15   | 8    | 9    | 11.5 | 16   | 10   | 12.5 | 12.5 |

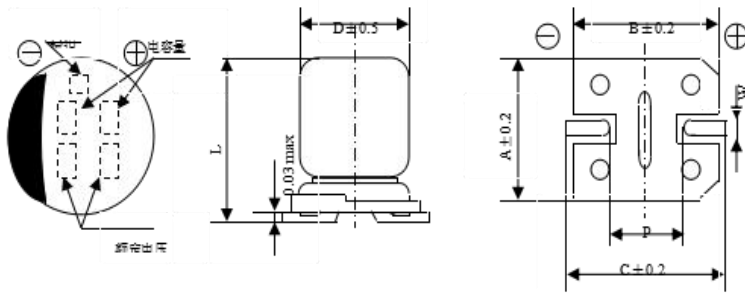
### 1.6 成型方式编码 Terminal Code

|             |                                     |   |  |                                       |
|-------------|-------------------------------------|---|--|---------------------------------------|
| 编码 Code     | PC                                  | PJ  | PB   | PZ                                    |
| 其他<br>Other | 平豆散装<br>Platform<br>rubber& In bulk | 平豆剪脚<br>Platform rubber &Lead<br>Cut3.5±0.3mm | 平豆编带<br>Platform rubber& Taping<br>Pitch=2.5mm | 座板<br>Right lying<br>Bending2.0±0.5mm |

## 2. 结构Construction



## 3. 尺寸图 Outer dimensions (单位 Unit:mm)



| 尺寸编码<br>Size Code | ΦD  | L   | P   | W       | A   | B   | C   |
|-------------------|-----|-----|-----|---------|-----|-----|-----|
| 0605              | 6.3 | 5.8 | 2.2 | 0.5~0.8 | 6.6 | 6.6 | 7.2 |
| 0607              | 6.3 | 7.7 | 2.2 | 0.5~0.8 | 6.6 | 6.6 | 7.2 |

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