



# VMM

- ◆ 高端电源专用 小型品 扁平化V-CHIP产品
- ◆ 105℃环境下3000小时~8000小时
- ◆ 符合AEC-Q200 RoHS指令对应品
- ◆ 适用于高密度 全自动表面贴装 高温回流焊对应



## ■ 主要技术参数

| 项目                                      | 特性   |                 |      |                 |      |                 |      |      |      |
|---|--|-----------------|------|-----------------|------|-----------------|------|------|------|
| 使用温度范围                                  | ≤100V.DC -55℃~+105℃ ; 160~500V.DC -40℃~+105℃                         |                 |      |                 |      |                 |      |      |      |
| 标称电压范围                                  | 6.3~500V.DC  |                 |      |                 |      |                 |      |      |      |
| 容量允许偏差                                  | ±20% (25±2℃ 120Hz)   |                 |      |                 |      |                 |      |      |      |
| 漏电流(μA)                                 | 6.3~100WV I≤0.01CV or 3μA取大者 C:标称容量(μF) V:额定电压(V) 2分钟读数              |                 |      |                 |      |                 |      |      |      |
|   | 160~500WV I≤0.02CV+10(μA) C:标称容量(μF) V:额定电压(V) 2分钟读数                 |                 |      |                 |      |                 |      |      |      |
| 损耗角正切值<br>(25±2℃ 120Hz)                 | 额定电压(V)  | 6.3             | 10   | 16              | 25   | 35              | 50   | 63   | 80   |
|   | tg δ   | 0.32            | 0.28 | 0.24            | 0.20 | 0.18            | 0.16 | 0.16 | 0.14 |
|   | 额定电压(V)  | 100             | 160  | 200             | 250  | 350             | 400  | 450  | 500  |
|   | tg δ   | 0.14            | 0.15 | 0.15            | 0.15 | 0.20            | 0.20 | 0.20 | 0.25 |
| 标称容量超过1000μF者, 则每增加1000μF, 损耗角正切值增加0.02 |  |                 |      |                 |      |                 |      |      |      |
| 温度特性<br>(120Hz)                         | 额定电压(V)  | 6.3             | 10   | 16              | 25   | 35              | 50   | 63   | 80   |
|   | 阻抗比Z(-40℃)/Z(20℃)  | 14              | 12   | 10              | 10   | 10              | 7    | 7    | 7    |
|   | 额定电压(V)  | 100             | 160  | 200             | 250  | 350             | 400  | 450  | 500  |
|   | 阻抗比Z(-40℃)/Z(20℃)  | 7               | 10   | 10              | 10   | 10              | 10   | 10   | 12   |
| 耐久性                                     | 在105℃烘箱中,施加含额定纹波电流的额定电压,持续规定时间后,置于常温16小时后测试,测试温度:25±2℃,电容器的性能应满足如下要求 |                 |      |                 |      |                 |      |      |      |
|   | 容量变化率  | 在初始值的±30%以内     |      |                 |      |                 |      |      |      |
|   | 损耗角正切值   | 在规定值的300%以下     |      |                 |      |                 |      |      |      |
|   | 漏电流  | 在规定值以下          |      |                 |      |                 |      |      |      |
|   | 负荷寿命   | 6.3WV~100WV     |      |                 |      | 160WV~500WV     |      |      |      |
|   |  | 外形尺寸            |      | 负荷寿命            |      | 外形尺寸            |      | 负荷寿命 |      |
|   |  | ΦD*5.7(6.2,6.9) |      | 3000            |      | ΦD*5.7(6.2,6.9) |      | 3000 |      |
| ΦD*7.7(7.9,8.4)                         |  | 4000            |      | ΦD*7.7(7.9,8.4) |      | 5000            |      |      |      |
| 其它Φ5~Φ6.3                               |  | 5000            |      | 其它Φ5~Φ6.3       |      | 6000            |      |      |      |
| 其它Φ8                                    |  | 6000            |      | 其它Φ8            |      | 7000            |      |      |      |
| 其它Φ10及以上                                |  | 8000            |      | 其它Φ10及以上        |      | 8000            |      |      |      |
| 高温储存                                    | 在105℃下,储存1000小时,置于常温16小时后测试,测试温度:25±2℃,电容器的性能应满足如下要求                 |                 |      |                 |      |                 |      |      |      |
|   | 容量变化率  | 在初始值的±20%以内     |      |                 |      |                 |      |      |      |
|   | 损耗角正切值   | 在规定值的200%以下     |      |                 |      |                 |      |      |      |
|   | 漏电流  | 在规定值的200%以下     |      |                 |      |                 |      |      |      |



■ 产品尺寸图 (单位: mm)



| φD   | L    | B    | C    | A   | H         | E   | K        | α    |
|------|------|------|------|-----|-----------|-----|----------|------|
| 5    | 5.7  | 5.3  | 5.3  | 2.1 | 0.75±0.10 | 1.5 | 0.7MAX   | ±0.3 |
| 5    | 7.9  | 5.3  | 5.3  | 2.1 | 0.75±0.10 | 1.5 | 0.7MAX   | ±0.3 |
| 5    | 10   | 5.3  | 5.3  | 2.1 | 0.75±0.10 | 1.5 | 0.7MAX   | ±0.5 |
| 6.3  | 5.7  | 6.6  | 6.6  | 2.6 | 0.75±0.10 | 1.8 | 0.7MAX   | ±0.3 |
| 6.3  | 7.7  | 6.6  | 6.6  | 2.6 | 0.75±0.10 | 1.8 | 0.7MAX   | ±0.3 |
| 6.3  | 10   | 6.6  | 6.6  | 2.6 | 0.75±0.10 | 1.8 | 0.7MAX   | ±0.5 |
| 8    | 6.2  | 8.3  | 8.3  | 3.4 | 0.90±0.20 | 3.1 | 0.7MAX   | ±0.3 |
| 8    | 7.9  | 8.3  | 8.3  | 3.4 | 0.90±0.20 | 3.1 | 0.7MAX   | ±0.3 |
| 8    | 10   | 8.3  | 8.3  | 3.4 | 0.90±0.20 | 3.1 | 0.7MAX   | ±0.5 |
| 8    | 12.5 | 8.3  | 8.3  | 3.4 | 0.90±0.20 | 3.1 | 0.7MAX   | ±0.5 |
| 8    | 14.5 | 8.3  | 8.3  | 3.4 | 0.90±0.20 | 3.1 | 0.7MAX   | ±0.5 |
| 8    | 16.5 | 8.3  | 8.3  | 3.4 | 0.90±0.20 | 3.1 | 0.7MAX   | ±0.5 |
| 10   | 6.9  | 10.3 | 10.3 | 3.5 | 0.90±0.20 | 4.4 | 0.7MAX   | ±0.3 |
| 10   | 8.4  | 10.3 | 10.3 | 3.5 | 0.90±0.20 | 4.4 | 0.7MAX   | ±0.3 |
| 10   | 10   | 10.3 | 10.3 | 3.5 | 0.90±0.20 | 4.4 | 0.7MAX   | ±0.5 |
| 10   | 12.5 | 10.3 | 10.3 | 3.5 | 0.90±0.20 | 4.4 | 0.7MAX   | ±0.5 |
| 10   | 13   | 10.3 | 10.3 | 3.5 | 0.90±0.20 | 4.4 | 0.7MAX   | ±0.5 |
| 10   | 14.5 | 10.3 | 10.3 | 3.5 | 0.90±0.20 | 4.4 | 0.7MAX   | ±0.5 |
| 10   | 16.5 | 10.3 | 10.3 | 3.5 | 0.90±0.20 | 4.4 | 0.7MAX   | ±0.5 |
| 10   | 21   | 10.3 | 10.3 | 3.5 | 0.90±0.20 | 4.4 | 0.7MAX   | ±0.5 |
| 12.5 | 13.5 | 13.5 | 13.5 | 4.7 | 0.90±0.20 | 4.4 | 0.7MAX   | ±1.0 |
| 12.5 | 14.5 | 13.5 | 13.5 | 4.7 | 0.90±0.20 | 4.4 | 0.7MAX   | ±1.0 |
| 12.5 | 16.5 | 13.5 | 13.5 | 4.7 | 0.90±0.20 | 4.4 | 0.7MAX   | ±1.0 |
| 16   | 16.5 | 17   | 17   | 5.5 | 1.2±0.30  | 6.7 | 0.7±0.30 | ±1.0 |
| 16   | 21   | 17   | 17   | 5.5 | 1.2±0.30  | 6.7 | 0.7±0.30 | ±1.0 |
| 18   | 17   | 19   | 19   | 6.7 | 1.2±0.30  | 6.7 | 0.7±0.30 | ±1.0 |
| 18   | 21   | 19   | 19   | 6.7 | 1.2±0.30  | 6.7 | 0.7±0.30 | ±1.0 |

■ 频率修正因子

| 频率 (Hz) | 50   | 120  | 1K   | ≥10K |
|---------|------|------|------|------|
| 系数      | 0.65 | 1.00 | 1.37 | 1.50 |



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## ■ 标准品一览表

| 电压(V)                  | 6.3           |                                    | 10            |                                    | 16            |                                    | 25            |                                    | 35            |                                    | 50            |                                    |
|------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|
| 项目<br>容量<br>( $\mu$ F) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) |
| 0.47                   |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 4                                  |
| 1.0                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 8                                  |
| 1.2                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 9                                  |
| 1.5                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 10                                 |
| 1.8                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 11                                 |
| 2.2                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 12                                 |
| 2.7                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 14                                 |
| 3.3                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 16                                 |
| 3.9                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 18                                 |
| 4.7                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 20                                 |
| 5.6                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 22                                 |
| 6.8                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 24                                 |
| 8.2                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 26                                 |
| 10                     | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×5.7         | 29                                 |
| 12                     |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×5.7         | 32                                 |
| 15                     | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×5.7         | 35                                 |
| 18                     |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 5×7.7         | 40                                 |
| 18                     |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 6.3×5.7       | 55                                 |
| 22                     | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×5.7         | 26                                 | 5×7.7         | 57                                 |
| 22                     |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 6.3×5.7       | 57                                 |
| 27                     |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 6.3×5.7       | 60                                 |
| 33                     | 5×5.7         | 30                                 | 5×5.7         | 30                                 | 5×5.7         | 30                                 | 5×5.7         | 30                                 | 6.3×5.7       | 55                                 | 6.3×7.7       | 72                                 |
| 33                     |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 8×6.2         | 72                                 |
| 39                     | 5×5.7         | 33                                 | 5×5.7         | 33                                 | 5×5.7         | 33                                 | 5×7.7         | 49                                 | 6.3×5.7       | 61                                 | 6.3×7.7       | 80                                 |
| 39                     |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 8×6.2         | 80                                 |
| 47                     | 5×5.7         | 37                                 | 5×5.7         | 37                                 | 5×5.7         | 37                                 | 5×7.7         | 54                                 | 6.3×5.7       | 67                                 | 6.3×7.7       | 88                                 |
| 47                     |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 8×6.2         | 88                                 |
| 56                     | 5×5.7         | 40                                 | 5×5.7         | 40                                 | 5×7.7         | 53                                 | 5×7.7         | 60                                 | 6.3×7.7       | 74                                 | 8×6.2         | 100                                |
| 56                     |               |                                    |               |                                    | 6.3×5.7       | 53                                 |               |                                    | 8×6.2         | 74                                 |               |                                    |
| 68                     | 5×5.7         | 45                                 | 5×5.7         | 45                                 | 5×7.7         | 58                                 | 6.3×5.7       | 100                                | 6.3×7.7       | 105                                | 8×7.9         | 120                                |
| 68                     |               |                                    |               |                                    | 6.3×5.7       | 58                                 |               | 100                                | 8×6.2         | 105                                | 10×6.9        | 120                                |
| 82                     | 5×5.7         | 50                                 | 6.3×5.7       | 71                                 | 5×7.7         | 64                                 | 6.3×7.7       | 115                                | 6.3×7.7       | 116                                | 8×7.9         | 140                                |
| 82                     |               |                                    |               |                                    | 6.3×5.7       | 64                                 | 8×6.2         | 115                                | 8×6.2         | 116                                | 10×6.9        | 140                                |
| 100                    | 5×5.7         | 55                                 | 6.3×5.7       | 78                                 | 6.3×5.7       | 70                                 | 8×6.2         | 160                                | 8×7.9         | 160                                | 8×7.9         | 150                                |
| 100                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 10×6.9        | 150                                |
| 120                    | 5×5.7         | 61                                 | 6.3×5.7       | 85                                 | 6.3×5.7       | 77                                 | 6.3×7.7       | 180                                | 8×7.9         | 180                                | 10×8.4        | 180                                |
| 120                    |               |                                    |               |                                    |               |                                    | 8×6.2         | 180                                |               |                                    |               |                                    |
| 150                    | 6.3×5.7       | 85                                 | 6.3×5.7       | 85                                 | 6.3×7.7       | 109                                | 8×6.2         | 200                                | 8×7.9         | 180                                | 10×8.4        | 220                                |
| 150                    |               |                                    |               |                                    | 8×6.2         | 109                                |               |                                    | 10×6.9        | 210                                |               |                                    |



# VMM

## ■ 标准品一览表

| 电压(V)                  | 6.3           |                                    | 10            |                                    | 16            |                                    | 25            |                                    | 35            |                                    | 50            |                                    |
|------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|
| 项目<br>容量<br>( $\mu$ F) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) |
| 180                    | 6.3×5.7       | 94                                 | 6.3×7.7       | 94                                 | 8×6.2         | 120                                | 8×7.9         | 170                                | 10×8.4        | 225                                | 10×10         | 310                                |
| 180                    |               |                                    |               |                                    |               |                                    | 10×6.9        | 225                                |               |                                    | 8×12.5        | 310                                |
| 220                    | 6.3×5.7       | 103                                | 6.3×7.7       | 103                                | 8×6.2         | 132                                | 10×6.9        | 250                                | 10×8.4        | 315                                | 10×12.5       | 340                                |
| 270                    | 6.3×7.7       | 123                                | 6.3×7.7       | 163                                |               |                                    |               | 250                                | 10×8.4        | 350                                | 10×12.5       | 375                                |
| 270                    | 8×6.2         | 123                                | 8×6.2         | 163                                | 8×7.9         | 180                                | 10×8.4        | 310                                |               |                                    |               |                                    |
| 330                    | 8×6.2         | 135                                | 8×6.2         | 175                                |               |                                    |               |                                    | 10×10         | 420                                | 12.5×13.5     | 415                                |
| 330                    | 6.3×7.7       | 135                                |               |                                    | 8×7.9         | 200                                | 10×8.4        | 345                                |               |                                    | 10×14.5       | 415                                |
| 390                    | 8×6.2         | 166                                | 8×7.9         | 196                                | 10×6.9        | 220                                |               |                                    | 10×12.5       | 525                                | 12.5×13.5     | 455                                |
| 390                    |               |                                    | 10×6.9        | 196                                |               |                                    | 10×8.4        | 380                                |               |                                    |               |                                    |
| 470                    | 8×7.9         | 200                                | 8×7.9         | 210                                | 10×8.4        | 295                                | 10×10         | 490                                | 10×13         | 570                                | 12.5×13.5     | 500                                |
| 470                    | 10×6.9        | 200                                | 10×6.9        | 210                                |               |                                    |               |                                    |               |                                    |               |                                    |
| 560                    | 8×7.9         | 231                                | 10×8.4        | 253                                | 10×8.4        | 325                                | 10×12.5       | 580                                | 12.5×13.5     | 586                                | 12.5×14.5     | 550                                |
| 560                    | 10×6.9        | 231                                |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |
| 680                    | 8×7.9         | 254                                | 10×8.4        | 275                                | 10×10         | 420                                | 10×12.5       | 640                                | 12.5×13.5     | 640                                | 12.5×16.5     | 610                                |
| 680                    | 10×6.9        | 254                                |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |
| 820                    | 10×8.4        | 304                                | 10×8.4        | 345                                | 10×10         | 465                                | 12.5×13.5     | 710                                | 12.5×14.5     | 710                                | 16×16.5       | 680                                |
| 820                    | 8×10          | 304                                |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |
| 1000                   | 10×8.4        | 362                                | 10×10         | 450                                | 10×12.5       | 580                                | 12.5×13.5     | 780                                | 12.5×16.5     | 780                                | 16×16.5       | 680                                |
| 1000                   | 8×10          | 362                                |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |
| 1200                   | 8×12.5        | 430                                | 10×12.5       | 540                                | 10×13         | 600                                | 12.5×13.5     | 860                                | 12.5×16.5     | 850                                | 18×17         | 750                                |
| 1200                   | 10×10         | 430                                |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |
| 1500                   | 10×12.5       | 520                                | 10×13         | 600                                | 12.5×13.5     | 665                                | 12.5×16.5     | 925                                | 16×16.5       | 925                                | 16×21         | 830                                |
| 1800                   | 10×12.5       | 520                                | 12.5×13.5     | 730                                | 12.5×13.5     | 730                                | 12.5×16.5     | 1010                               | 16×16.5       | 1010                               | 18×21         | 910                                |
| 2200                   | 10×13         | 570                                | 12.5×13.5     | 800                                | 12.5×14.5     | 860                                | 16×16.5       | 1100                               | 18×17         | 1100                               |               |                                    |
| 2700                   | 10×16.5       | 686                                | 12.5×13.5     | 810                                | 12.5×16.5     | 980                                | 16×16.5       | 1230                               | 18×21         | 1230                               |               |                                    |
| 2700                   | 12.5×13.5     | 686                                |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |
| 3300                   | 10×16.5       | 760                                | 12.5×16.5     | 970                                | 16×16.5       | 1130                               | 18×17         | 1350                               |               |                                    |               |                                    |
| 3300                   | 12.5×13.5     | 760                                |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |
| 3900                   | 12.5×14.5     | 830                                | 12.5×16.5     | 1060                               | 16×16.5       | 1250                               | 18×21         | 1480                               |               |                                    |               |                                    |
| 4700                   | 12.5×16.5     | 910                                | 16×16.5       | 1360                               | 18×17         | 1580                               | 18×21         | 1650                               |               |                                    |               |                                    |



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## ■ 标准品一览表

| 电压(V)                  | 63            |                                    | 80            |                                    | 100           |                                    | 160           |                                    | 200           |                                    | 250           |                                    |
|------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|
| 项目<br>容量<br>( $\mu$ F) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) |
| 0.47                   | 5×5.7         | 4                                  | 5×5.7         | 4                                  | 5×5.7         | 4                                  |               |                                    |               |                                    |               |                                    |
| 1.0                    | 5×5.7         | 8                                  | 5×5.7         | 8                                  | 5×5.7         | 8                                  | 5×5.7         | 15                                 | 5×5.7         | 15                                 | 5×5.7         | 15                                 |
| 1.2                    | 5×5.7         | 9                                  | 5×5.7         | 9                                  | 5×5.7         | 9                                  | 5×5.7         | 18                                 | 5×5.7         | 18                                 | 5×5.7         | 18                                 |
| 1.5                    | 5×5.7         | 10                                 | 5×5.7         | 10                                 | 5×5.7         | 10                                 | 5×5.7         | 18                                 | 5×5.7         | 18                                 | 5×7.7         | 22                                 |
| 1.8                    | 5×5.7         | 11                                 | 5×5.7         | 11                                 | 5×5.7         | 11                                 | 5×5.7         | 18                                 | 5×7.7         | 22                                 | 5×7.7         | 22                                 |
| 2.2                    | 5×5.7         | 12                                 | 5×5.7         | 12                                 | 5×5.7         | 12                                 | 5×7.7         | 20                                 | 5×7.7         | 22                                 | 6.3×5.7       | 22                                 |
| 2.7                    | 5×5.7         | 14                                 | 5×5.7         | 14                                 | 5×5.7         | 14                                 | 5×7.7         | 22                                 | 6.3×5.7       | 31                                 | 6.3×7.7       | 35                                 |
| 3.3                    | 5×5.7         | 16                                 | 5×5.7         | 16                                 | 5×5.7         | 16                                 | 6.3×5.7       | 22                                 | 6.3×5.7       | 35                                 | 6.3×7.7       | 35                                 |
| 3.3                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 8×6.2         | 35                                 |
| 3.9                    | 5×5.7         | 18                                 | 5×5.7         | 18                                 | 5×5.7         | 18                                 | 6.3×5.7       | 22                                 | 6.3×7.7       | 40                                 | 6.3×7.7       | 40                                 |
| 3.9                    |               |                                    |               |                                    |               |                                    |               |                                    | 8×6.2         | 40                                 | 8×6.2         | 40                                 |
| 4.7                    | 5×5.7         | 20                                 | 5×5.7         | 20                                 | 5×5.7         | 20                                 | 6.3×7.7       | 28                                 | 6.3×7.7       | 45                                 | 8×6.2         | 50                                 |
| 4.7                    |               |                                    |               |                                    |               |                                    | 8×6.2         | 28                                 | 8×6.2         | 45                                 |               |                                    |
| 5.6                    | 5×5.7         | 22                                 | 5×5.7         | 22                                 | 5×7.7         | 22                                 | 6.3×7.7       | 40                                 | 8×6.2         | 50                                 | 8×7.9         | 55                                 |
| 5.6                    |               |                                    |               |                                    |               |                                    | 8×6.2         | 40                                 |               |                                    | 10×6.9        | 55                                 |
| 6.8                    | 5×5.7         | 24                                 | 5×5.7         | 24                                 | 5×7.7         | 24                                 | 8×6.2         | 45                                 | 8×7.9         | 65                                 | 8×7.9         | 65                                 |
| 6.8                    |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    | 10×6.9        | 65                                 |
| 8.2                    | 5×5.7         | 26                                 | 5×7.7         | 26                                 | 6.3×5.7       | 26                                 | 8×6.2         | 51                                 | 8×7.9         | 65                                 |               |                                    |
| 8.2                    |               |                                    |               |                                    |               |                                    |               |                                    | 10×6.9        | 65                                 | 10×8.4        | 80                                 |
| 10                     | 5×5.7         | 29                                 | 5×7.7         | 28                                 | 6.3×5.7       | 28                                 | 8×7.9         | 56                                 | 8×7.9         | 72                                 |               |                                    |
| 10                     |               |                                    |               |                                    |               |                                    | 10×6.9        | 56                                 | 10×6.9        | 72                                 | 10×8.4        | 95                                 |
| 12                     | 5×7.7         | 45                                 | 6.3×5.7       | 31                                 | 6.3×7.7       | 31                                 | 8×7.9         | 62                                 | 8×10          | 90                                 | 10×8.4        | 105                                |
| 12                     | 6.3×5.7       | 45                                 |               |                                    | 8×6.2         | 31                                 | 10×6.9        | 62                                 | 10×8.4        | 90                                 |               |                                    |
| 15                     | 5×7.7         | 50                                 | 6.3×7.7       | 38                                 | 6.3×7.7       | 34                                 | 8×10          | 87                                 | 10×8.4        | 105                                | 10×10         | 125                                |
| 15                     | 6.3×5.7       | 50                                 | 8×6.2         | 38                                 | 8×6.2         | 34                                 | 10×8.4        | 87                                 |               |                                    |               |                                    |
| 18                     | 6.3×5.7       | 55                                 | 6.3×7.7       | 44                                 | 8×6.2         | 44                                 | 10×8.4        | 95                                 | 10×10         | 125                                | 10×12.5       | 140                                |
| 18                     |               |                                    | 8×6.2         | 44                                 |               |                                    |               |                                    |               |                                    |               |                                    |
| 22                     | 6.3×5.7       | 60                                 | 6.3×7.7       | 49                                 | 8×7.9         | 60                                 | 10×10         | 110                                | 10×12.5       | 180                                | 10×12.5       | 180                                |
| 22                     |               |                                    | 8×6.2         | 60                                 | 10×6.9        | 60                                 |               |                                    |               |                                    |               |                                    |
| 27                     | 6.3×7.7       | 65                                 | 8×6.2         | 65                                 | 8×7.9         | 78                                 | 10×12.5       | 150                                | 10×13         | 225                                | 10×14.5       | 225                                |
| 27                     | 8×6.2         | 65                                 |               |                                    | 10×6.9        | 78                                 |               |                                    |               |                                    |               |                                    |
| 33                     | 6.3×7.7       | 72                                 | 8×7.9         | 78                                 | 10×8.4        | 86                                 | 10×12.5       | 165                                | 10×14.5       | 250                                | 12.5×13.5     | 270                                |
| 33                     | 8×6.2         | 72                                 | 10×6.9        | 78                                 |               |                                    |               |                                    |               |                                    |               |                                    |
| 39                     | 8×6.2         | 80                                 | 8×7.9         | 86                                 | 10×8.4        | 110                                | 10×13         | 185                                | 12.5×13.5     | 300                                | 12.5×14.5     | 300                                |
| 39                     |               |                                    | 10×6.9        | 86                                 |               |                                    |               |                                    |               |                                    |               |                                    |
| 47                     | 8×7.9         | 88                                 | 10×8.4        | 110                                | 10×8.4        | 140                                | 12.5×13.5     | 300                                | 12.5×13.5     | 330                                | 12.5×16.5     | 375                                |
| 47                     | 10×6.9        | 88                                 |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |
| 56                     | 8×7.9         | 98                                 | 10×8.4        | 140                                | 10×10         | 170                                | 12.5×13.5     | 330                                | 12.5×14.5     | 340                                | 12.5×16.5     | 375                                |
| 56                     | 10×6.9        | 98                                 |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |



# VMM

## ■ 标准品一览表

| 电压(V)                  | 63            |                                    | 80            |                                    | 100           |                                    | 160           |                                    | 200           |                                    | 250           |                                    |
|------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|
| 项目<br>容量<br>( $\mu$ F) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) |
| 68                     | 8×7.9         | 110                                | 10×8.4        | 155                                | 10×12.5       | 200                                | 12.5×14.5     | 365                                | 12.5×16.5     | 375                                | 16×16.5       | 450                                |
| 68                     | 10×6.9        | 110                                |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |
| 82                     | 10×8.4        | 155                                | 10×10         | 180                                | 10×13         | 250                                | 12.5×16.5     | 440                                | 16×16.5       | 450                                | 16×16.5       | 450                                |
| 100                    | 10×8.4        | 180                                | 10×10         | 200                                | 12.5×13.5     | 310                                | 12.5×16.5     | 440                                | 16×16.5       | 480                                | 18×17         | 500                                |
| 120                    | 10×10         | 200                                | 10×12.5       | 250                                | 12.5×13.5     | 320                                | 16×16.5       | 525                                | 18×17         | 575                                | 16×21         | 540                                |
| 150                    | 10×12.5       | 250                                | 12.5×13.5     | 310                                | 12.5×13.5     | 320                                | 18×17         | 630                                | 16×21         | 575                                | 18×21         | 670                                |
| 180                    | 10×12.5       | 275                                | 12.5×13.5     | 320                                | 12.5×16.5     | 390                                | 18×17         | 630                                | 18×21         | 690                                |               |                                    |
| 220                    | 12.5×13.5     | 320                                | 12.5×13.5     | 320                                | 12.5×16.5     | 480                                | 18×21         | 835                                |               |                                    |               |                                    |
| 270                    | 12.5×13.5     | 350                                | 12.5×14.5     | 390                                | 16×16.5       | 530                                |               |                                    |               |                                    |               |                                    |
| 330                    | 12.5×13.5     | 390                                | 12.5×16.5     | 480                                | 16×16.5       | 590                                |               |                                    |               |                                    |               |                                    |
| 390                    | 12.5×16.5     | 440                                | 16×16.5       | 530                                | 18×17         | 700                                |               |                                    |               |                                    |               |                                    |
| 470                    | 12.5×16.5     | 480                                | 16×16.5       | 590                                | 16×21         | 700                                |               |                                    |               |                                    |               |                                    |
| 560                    | 16×16.5       | 550                                | 18×17         | 700                                | 18×21         | 850                                |               |                                    |               |                                    |               |                                    |
| 680                    | 16×16.5       | 610                                | 16×21         | 700                                |               |                                    |               |                                    |               |                                    |               |                                    |
| 820                    | 18×17         | 730                                | 18×21         | 850                                |               |                                    |               |                                    |               |                                    |               |                                    |
| 1000                   | 18×17         | 750                                |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |
| 1200                   | 16×21         | 830                                |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |
| 1500                   | 18×21         | 910                                |               |                                    |               |                                    |               |                                    |               |                                    |               |                                    |

# VMM

## ■ 标准品一览表

| 电压(V)                   | 350           |                                    | 400           |                                    | 450           |                                    | 500           |                                    |
|-------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|
| 项目<br>容量<br>( $\mu F$ ) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) | 尺寸<br>D×L(mm) | 纹波电流<br>(mA r.m.s/<br>105°C 120Hz) |
| 1.0                     | 5×7.7         | 18                                 | 5×7.7         | 18                                 | 6.3×5.7       | 20                                 | 6.3×7.7       | 20                                 |
| 1.2                     | 5×7.7         | 20                                 | 6.3×5.7       | 20                                 | 6.3×7.7       | 24                                 | 6.3×7.7       | 20                                 |
| 1.2                     | 6.3×5.7       | 20                                 |               |                                    | 8×6.2         | 24                                 |               |                                    |
| 1.5                     | 6.3×5.7       | 25                                 | 6.3×7.7       | 28                                 | 6.3×7.7       | 28                                 | 8×6.2         | 20                                 |
| 1.5                     |               |                                    |               |                                    | 8×6.2         | 31                                 |               |                                    |
| 1.8                     | 6.3×7.7       | 31                                 | 6.3×7.7       | 31                                 | 8×6.2         | 37                                 | 8×7.9         | 25                                 |
| 1.8                     | 8×6.2         | 31                                 | 8×6.2         | 31                                 |               |                                    |               |                                    |
| 2.2                     | 6.3×7.7       | 40                                 | 6.3×7.7       | 40                                 | 8×7.9         | 44                                 | 8×7.9         | 30                                 |
| 2.2                     | 8×6.2         | 44                                 | 8×6.2         | 44                                 | 10×6.9        | 44                                 |               |                                    |
| 2.7                     | 8×6.2         | 48                                 | 8×6.2         | 48                                 | 8×7.9         | 48                                 | 8×10          | 36                                 |
| 2.7                     |               |                                    |               |                                    | 10×6.9        | 48                                 |               |                                    |
| 3.3                     | 10×6.9        | 55                                 | 8×7.9         | 55                                 | 8×7.9         | 55                                 | 10×8.4        | 36                                 |
| 3.3                     |               |                                    | 10×6.9        | 55                                 | 10×6.9        | 55                                 |               |                                    |
| 3.9                     | 8×7.9         | 62                                 | 8×7.9         | 62                                 | 10×8.4        | 66                                 | 8×12.5        | 44                                 |
| 3.9                     | 10×6.9        | 62                                 | 10×6.9        | 62                                 |               |                                    | 10×10         | 44                                 |
| 4.7                     | 8×7.9         | 70                                 | 10×6.9        | 70                                 | 10×8.4        | 72                                 | 8×14.5        | 50                                 |
| 4.7                     | 10×6.9        | 70                                 |               |                                    |               |                                    | 10×10         | 50                                 |
| 5.6                     | 8×10          | 84                                 | 8×10          | 84                                 | 10×10         | 88                                 | 10×12.5       | 55                                 |
| 5.6                     | 10×8.4        | 84                                 | 10×8.4        | 84                                 |               |                                    |               |                                    |
| 6.8                     | 8×10          | 84                                 | 8×12.5        | 88                                 | 10×12.5       | 105                                | 10×12.5       | 60                                 |
| 6.8                     | 10×8.4        | 88                                 | 10×8.4        | 88                                 |               |                                    |               |                                    |
| 8.2                     | 8×12.5        | 105                                | 10×10         | 105                                | 10×12.5       | 120                                | 10×13         | 66                                 |
| 8.2                     | 10×10         | 105                                |               |                                    |               |                                    |               |                                    |
| 10                      | 10×10         | 105                                | 10×12.5       | 120                                | 10×13         | 126                                | 10×14.5       | 72                                 |
| 10                      |               |                                    |               |                                    |               |                                    | 12.5×13.5     | 86                                 |
| 12                      | 10×12.5       | 126                                | 10×12.5       | 126                                | 12.5×13.5     | 150                                | 12.5×14.5     | 95                                 |
| 15                      | 10×13         | 132                                | 12.5×13.5     | 150                                | 12.5×13.5     | 150                                | 12.5×14.5     | 105                                |
| 18                      | 10×14.5       | 145                                | 12.5×13.5     | 150                                | 12.5×14.5     | 165                                | 12.5×16.5     | 125                                |
| 22                      | 12.5×13.5     | 150                                | 12.5×14.5     | 165                                | 12.5×16.5     | 200                                | 16×16.5       | 150                                |
| 27                      | 12.5×14.5     | 165                                | 12.5×16.5     | 182                                | 16×16.5       | 234                                | 16×16.5       | 165                                |
| 33                      | 12.5×16.5     | 182                                | 12.5×16.5     | 200                                | 16×16.5       | 258                                | 18×17         | 180                                |
| 39                      | 12.5×16.5     | 200                                | 16×16.5       | 234                                | 18×17         | 310                                | 16×21         | 215                                |
| 47                      | 16×16.5       | 258                                | 16×16.5       | 258                                | 16×21         | 340                                | 18×21         | 258                                |
| 56                      | 18×17         | 310                                | 18×17         | 310                                | 18×21         | 380                                |               |                                    |
| 68                      | 18×17         | 340                                | 16×21         | 340                                |               |                                    |               |                                    |
| 82                      | 18×21         | 380                                | 18×21         | 380                                |               |                                    |               |                                    |
| 100                     | 18×21         | 410                                |               |                                    |               |                                    |               |                                    |

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