



MHA系列

• 85°C 2,000Hrs 保证。

- 非耐清洗品。
- 用于数字家电。
- 符合 RoHS。
- 环境亲和品。

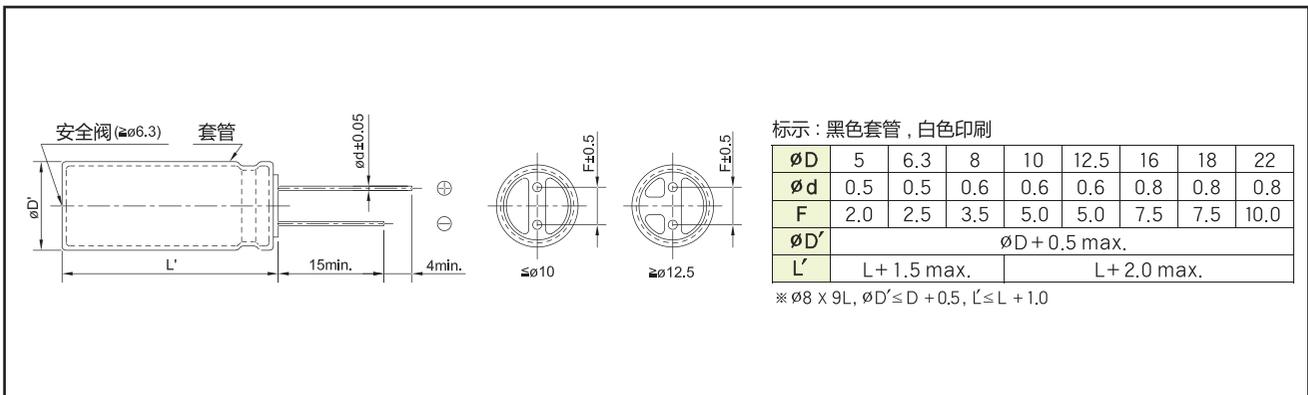


规格表

| 项目 | 特性 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|------|------|------|------|------|--------|------|---------|---------|-------------------------|-----|----|----|----|----|----|--------|-----|---------|---------|------------------|------|------|------|------|------|------|------|------|------|------|------------------|----|----|---|---|---|---|---|---|---|---|
| 额定电压范围 | 6.3 ~ 100 V _{DC} | 160 ~ 500 V _{DC} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 工作温度范围 | -40 ~ +85°C | -25 ~ +85°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 容量许容差 | ±20% (M) (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏电流 | 1分值: I=0.03 CV(μA) 或 4 μA 中任何一个较大值 2分值: I=0.01 CV(μA) 或 3 μA 中任何一个较大值 | 1分值 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 5分值 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | CV≤1,000 CV>1,000 CV≤1,000 CV>1,000 0.1CV+40 0.04CV+100 0.03CV+15 0.02CV+25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I: 最大漏电流(μA), C: 公称容量(μF), V: 额定电压(V _{DC}) (20°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 损失角正切值(Tanδ) | <table border="1"> <thead> <tr> <th>额定电压(V_{DC})</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>160~250</th> <th>350~500</th> </tr> </thead> <tbody> <tr> <td>Tanδ(Max.)</td> <td>0.34</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.20</td> <td>0.24</td> </tr> </tbody> </table> | | | | | | | | | | | 额定电压(V _{DC}) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160~250 | 350~500 | Tanδ(Max.) | 0.34 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.20 | 0.24 | | | | | | | | | | | |
| | 额定电压(V _{DC}) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160~250 | 350~500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tanδ(Max.) | 0.34 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.20 | 0.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 容量超过 1,000 μF 的每增加 1,000 μF, 设定增加 0.02。 (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 温度特性 (最大阻抗比) | <table border="1"> <thead> <tr> <th>额定电压 (V_{DC})</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63~100</th> <th>160</th> <th>200~250</th> <th>350~500</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>4</td> <td>8</td> <td>16</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>12</td> <td>10</td> <td>8</td> <td>5</td> <td>4</td> <td>3</td> <td>4</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> | | | | | | | | | | | 额定电压 (V _{DC}) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63~100 | 160 | 200~250 | 350~500 | Z(-25°C)/Z(20°C) | 5 | 4 | 3 | 2 | 2 | 2 | 3 | 4 | 8 | 16 | Z(-40°C)/Z(20°C) | 12 | 10 | 8 | 5 | 4 | 3 | 4 | - | - | - |
| | 额定电压 (V _{DC}) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63~100 | 160 | 200~250 | 350~500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Z(-25°C)/Z(20°C) | 5 | 4 | 3 | 2 | 2 | 2 | 3 | 4 | 8 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 12 | 10 | 8 | 5 | 4 | 3 | 4 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 耐久性 | <p>在85°C的环境中, 连续加载额定电压2,000小时后, 待温度恢复到20°C进行测量时, 应满足以下要求。</p> <p>容量变化率 ≤ 初始值的 ±20%</p> <p>Tan δ ≤ 初始规格值的 200%</p> <p>漏电流 ≤ 初始规格值</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 高温无负荷特性 | <p>在85°C环境中, 无负荷放置1,000小时后, 待温度恢复到20°C进行测量时, 应满足以下要求。</p> <p>当不符合下面要求时, 加载额定电压至少30分钟, 放置24~48小时后再测定。</p> <p>容量变化率 ≤ 初始值的 ±20%</p> <p>Tan δ ≤ 初始规格值的 200%</p> <p>漏电流 ≤ 初始规格值 (WV ≥ 160 V_{DC} 是 200%)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 其他 | 应满足 KS C IEC 60384-4的特性要求 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MHA系列尺寸图

单位 (mm)



MHA 系列对应表

| $\mu F \backslash V_{dc}$ | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | 500 |
|---------------------------|------------------------------|----------------------------|------------------------------|----------------------------|------------------------------|-----------------------------|------------------|----------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|
| 1 | | | | | | 5×11 22 | 5×11 24 | 5×11 24 | 5×11 20 6.3×11 23 | 5×11 20 6.3×11 23 | 5×11 24 6.3×11 27 | 6.3×11 28 | 6.3×11 29 | 6.3×11 24 | |
| 2.2 | | | | | | 5×11 34 | 5×11 35 | 5×11 37 | 5×11 29 6.3×11 33 | 5×11 34 6.3×11 39 | 6.3×11 41 | 6.3×11 43 | 6.3×11 44 | 6.3×11 34 8×11.5 40 | 8×11.5 34 |
| 3.3 | | | | | | 5×11 41 | 5×11 43 | 5×11 44 | 6.3×11 46 | 6.3×11 47 | 6.3×11 48 | 6.3×11 48 8×11.5 56 | 6.3×11 51 8×11.5 59 | 8×11 46 10×12.5 54 | 8×11 43 10×12.5 50 |
| 4.7 | | | | | 5×11 35 | 5×11 48 | 5×11 53 | 5×11 55 | 6.3×11 56 | 6.3×11 57 | 6.3×11 58 8×11.5 66 | 8×11.5 68 | 8×11 70 10×12.5 73 | 10×12.5 65 | 10×16 68 |
| 6.8 | | | | | 5×11 46 | 5×11 59 | 5×11 63 | 5×11 64 | 6.3×11 67 8×11.5 78 | 6.3×11 69 8×11.5 80 | 8×11.5 82 | 8×11 79 10×12.5 92 | 10×12.5 95 | 10×16 83 | 10×16 78 |
| 10 | | | 5×11 39 | 5×11 49 | 5×11 53 | 5×11 71 | 5×11 76 | 5×11 76 | 6.3×11 78 8×11.5 82 | 8×11.5 96 | 8×11 97 10×12.5 113 | 10×12.5 106 | 10×16 123 | 12.5×16 111 | 12.5×16 101 |
| 22 | | 5×11 52 | 5×11 68 | 5×11 73 | 5×11 80 | 5×11 106 | 5×11 113 | 6.3×11 130 | 10×12.5 136 | 10×12.5 152 | 10×16 182 | 12.5×16 205 | 10×25 229 | 16×20 216 | 16×20 140 |
| 33 | 5×11 41 | 5×11 70 | 5×11 80 | 5×11 83 | 5×11 100 | 5×11 129 8×9 98 | 6.3×11 159 | 8×11.5 187 | 10×16 224 | 10×16 226 | 12.5×16 262 | 12.5×20 275 | 12.5×20 294 | 16×20 297 | 16×25 204 |
| 47 | 5×11 59 | 5×11 88 | 5×11 120 | 5×11 126 | 5×11 138 8×9 98 | 6.3×11 177 8×9 110 | 6.3×11 190 | 8×11 223 8×15 246 | 10×16 277 | 12.5×16 315 | 12.5×20 340 | 16×20 395 | 16×20 407 | 16×25 368 | 18×25 233 |
| 68 | 5×11 90 | 5×11 110 | 5×11 130 | 5×11 151 | 5×11 168 6.3×11 191 | 6.3×11 213 | 8×11.5 269 | 10×12.5 311 | 12.5×16 377 | 12.5×20 441 | 16×20 490 | 16×25 500 | 16×25 522 | 16×31.5 544 | 18×31.5 269 |
| 100 | 5×11 135 | 5×11 150 | 5×11 170 | 5×11 184 8×9 115 | 6.3×11 231 | 8×11.5 306 | 8×11.5 321 | 10×16 416 | 12.5×20 496 | 16×20 543 | 16×20 550 | 16×31.5 674 | 18×31.5 698 | 18×35.5 620 | |
| 220 | 5×11 211 | 5×11 229 8×9 150 | 5×11 256 6.3×11 290 | 6.3×11 318 | 8×11.5 405 | 10×12.5 506 | 10×16 615 | 12.5×20 742 | 16×25 906 | 16×31.5 1,029 | 18×31.5 1,040 | 22×35 1,074 | 22×45 1,150 | | |
| 330 | 5×11 262 6.3×11 297 | 6.3×11 322 | 6.3×11 360 | 8×11.5 453 | 8×11 494 8×15 547 | 10×16 706 | 10×20 823 | 12.5×25 987 | 18×31.5 1,304 | 18×31.5 1,281 | 22×35 1,333 | | | | |
| 470 | 6.3×11 355 8×9 241 | 6.3×11 384 | 8×11.5 499 | 8×11 540 8×15 597 | 10×12.5 682 | 10×20 918 | 10×20 1,039 | 16×20 1,299 | 22×30 1,421 | 22×35 1,459 | | | | | |
| 680 | 8×11.5 503 | 8×11.5 546 | 8×11 584 8×15 655 | 10×16 826 | 10×16 909 | 12.5×16 1,190 | 12.5×25 1,512 | 16×31.5 1,587 | 22×40 1,680 | | | | | | |
| 1,000 | 8×11.5 610 | 8×11 679 8×15 751 | 10×12.5 840 | 10×16 1,007 | 10×20 1,163 | 12.5×25 1,715 | 16×20 1,724 | 18×31.5 1,932 | | | | | | | |
| 2,200 | 10×16 1,059 | 10×16 1,129 | 10×20 1,340 | 12.5×20 1,651 | 12.5×30 1,933 | 16×31.5 2,320 | 18×31.5 2,654 | | | | | | | | |
| 3,300 | 10×20 1,350 | 10×25 1,657 | 10×30 1,804 | 12.5×30 2,159 | 16×25 2,314 | 18×31.5 3,118 | | | | | | | | | |
| 4,700 | 12.5×20 1,822 | 12.5×20 1,929 | 16×20 2,200 | 16×25 2,464 | 16×35.5 3,061 | | | | | | | | | | |
| 6,800 | 12.5×20 2,235 | 12.5×30 2,545 | 16×25 2,690 | 16×31.5 2,992 | | | | | | | | | | | |
| 10,000 | 16×20 2,571 | 16×25 2,742 | 16×31.5 3,420 | | | | | | | | | | | | |
| 15,000 | 16×31.5 3,453 | 18×31.5 3,707 | | | | | | | | | | | | | |

尺寸 $\phi D \times L$ (mm)
 额定纹波电流 (mArms/85°C, 120Hz)

额定纹波电流频率修正系数

频率修正系数

| 容量 (μF) \ 频率 (Hz) | 60 | 120 | 300 | 1k | 10k~ |
|--------------------------|------|------|------|------|------|
| 1~6.8 | 0.65 | 1.00 | 1.35 | 1.75 | 2.30 |
| 10~68 | 0.75 | 1.00 | 1.25 | 1.50 | 1.75 |
| 100~1,000 | 0.80 | 1.00 | 1.15 | 1.30 | 1.40 |
| 2,200~15,000 | 0.85 | 1.00 | 1.03 | 1.05 | 1.08 |