

HBV 系列

特长 / 用途

- 105℃、10,000小时寿命保证
- 低等效串联电阻(ESR)并可承受高纹波电流
- 符合RoHS指令

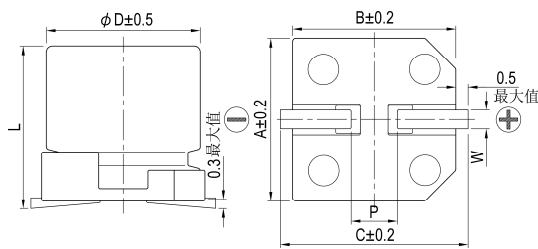


标示颜色：深绿色

规格表

| 项 目 | 性 能 | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|---------------|---------------|-----------------|------------------|-----|----|----|-----------------|-----|-----|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-----|
| 工作温度范围 | -55℃ ~ +105℃ | | | | | | | | | | | | | | | | | | | | |
| 额定静电容量容许误差值 | ± 20% (120 Hz, 20℃) | | | | | | | | | | | | | | | | | | | | |
| 漏电流(20℃)* | I = 0.01CV或3(μA/微安)之中任一个较大值以下(2分钟后) I = 漏电流(μA/微安)、C = 额定静电容量(μF/微法拉)、V = 额定直流工作电压(V/伏特) | | | | | | | | | | | | | | | | | | | | |
| 损失角正切值(120 Hz, 20℃) | 参阅标准品一览表 | | | | | | | | | | | | | | | | | | | | |
| 温度特性(100k Hz) | 阻抗比不可大于下表所列数值 | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>额定电压</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> </tr> </thead> <tbody> <tr> <td>Z(-25℃)/Z(+20℃)</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> </tr> <tr> <td>Z(-55℃)/Z(+20℃)</td> <td>2.0</td> <td>2.0</td> <td>2.0</td> <td>2.0</td> <td>2.0</td> <td>2.0</td> </tr> </tbody> </table> | 额定电压 | 16 | 25 | 35 | 50 | 63 | 80 | Z(-25℃)/Z(+20℃) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | Z(-55℃)/Z(+20℃) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 额定电压 | 16 | 25 | 35 | 50 | 63 | 80 | | | | | | | | | | | | | | | |
| Z(-25℃)/Z(+20℃) | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | | | | | | | | | | | | | | |
| Z(-55℃)/Z(+20℃) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | | | | | | | | | | | | | | | |
| 耐久性 | 保证寿命时间 | 10,000 小时 | | | | | | | | | | | | | | | | | | | |
| | 静电容量变化率 | ≦ 初始值的± 30% | | | | | | | | | | | | | | | | | | | |
| | 损失角正切值 | ≦ 初始规格值的 200% | | | | | | | | | | | | | | | | | | | |
| | 等效串联电阻(ESR) | ≦ 初始规格值的 200% | | | | | | | | | | | | | | | | | | | |
| | 漏电流 | ≦ 初始规格值 | | | | | | | | | | | | | | | | | | | |
| 高温无负荷特性 | * 于 105℃环境中供给容许纹波电流值与额定电压 10,000 小时后，待制品回复至 20℃的环境中进行量测时，需满足上列要求。 * 于 105℃环境中不供给额定电压 1,000 小时后，待制品回复至 20℃的环境中进行量测时，需满足同耐久性试验要求(可进行电压补偿后再行量测)。 | | | | | | | | | | | | | | | | | | | | |
| 焊锡耐热性* (请参照第 26 页贴片型焊接条件) | 静电容量变化率 | ≦ 初始值的± 10% | | | | | | | | | | | | | | | | | | | |
| | 损失角正切值 | ≦ 初始规格值 | | | | | | | | | | | | | | | | | | | |
| | 等效串联电阻(ESR) | ≦ 初始规格值 | | | | | | | | | | | | | | | | | | | |
| | 漏电流 | ≦ 初始规格值 | | | | | | | | | | | | | | | | | | | |
| 纹波电流与频率修正系数 | 频率(Hz) | 120 ≦ 频率 < 1k | 1k ≦ 频率 < 10k | 10k ≦ 频率 < 100k | 100k ≦ 频率 < 500k | | | | | | | | | | | | | | | | |
| | 修正系数 | 0.1 | 0.3 | 0.6 | 1.0 | | | | | | | | | | | | | | | | |

寸法图



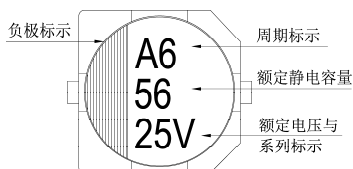
制品各项寸法

单位：毫米

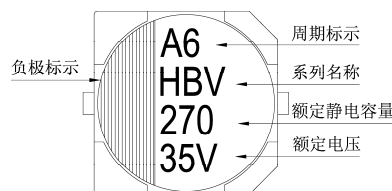
| φD | L | A | B | C | W | P ± 0.2 |
|-----|------------|------|------|------|-----------|---------|
| 6.3 | 5.8 ± 0.3 | 6.6 | 6.6 | 7.2 | 0.5 ~ 0.8 | 2.0 |
| 6.3 | 7.7 ± 0.3 | 6.6 | 6.6 | 7.2 | 0.5 ~ 0.8 | 2.0 |
| 8 | 10.0 ± 0.5 | 8.3 | 8.3 | 9.0 | 0.7 ~ 1.1 | 3.1 |
| 10 | 10.0 ± 0.5 | 10.3 | 10.3 | 11.0 | 0.7 ~ 1.3 | 4.7 |
| 10 | 12.5 ± 0.5 | 10.3 | 10.3 | 11.0 | 0.7 ~ 1.3 | 4.7 |

标示

φD = 6.3



φD = 8 ~ 10





尺寸: 直径(ϕ D) \times 长度(L), (毫米/mm)

容许纹波电流: 毫安/均方根值(mA/rms), 100k 赫兹(Hz), 105 $^{\circ}$ C

标准品一览表

| 额定电压 (V/伏特) | 涌浪电压 (V/伏特) | 额定静电容量 (μ F/微法拉) | 制品尺寸 ϕ D \times L | 损失角正切值 (120 Hz, 20 $^{\circ}$ C) | 漏电流 (μ A/微安) | 等效串联电阻(ESR) | | 额定纹波电流值 毫安(mA/rms) 100k Hz, 105 $^{\circ}$ C |
|----------------|----------------|--------------------------|-----------------------------|-------------------------------------|----------------------|---|-------|---|
| | | | | | | 毫欧(m Ω)/100k 赫兹(Hz)最大值, 20 $^{\circ}$ C | | |
| 16V (1C) | 18.4 | 82 | 6.3 \times 5.8 | 0.16 | 13.1 | 50 | 1,300 | |
| | | 150 | 6.3 \times 7.7 | | 24 | 30 | 2,000 | |
| | | 270 | 8 \times 10 | | 43.2 | 27 | 2,300 | |
| | | 470 | 10 \times 10 | | 75.2 | 20 | 2,500 | |
| 25V (1E) | 28.8 | 47 | 6.3 \times 5.8 | 0.14 | 11.8 | 50 | 1,300 | |
| | | 56 | 6.3 \times 5.8 | | 14 | 50 | 1,300 | |
| | | 68 | 6.3 \times 7.7 | | 17 | 30 | 2,000 | |
| | | 100 | 6.3 \times 7.7 | | 25 | 30 | 2,000 | |
| | | 150 | 8 \times 10 | | 37.5 | 27 | 2,300 | |
| | | 220 | 8 \times 10 | | 55 | 27 | 2,300 | |
| | | 330 | 10 \times 10 | | 82.5 | 20 | 2,500 | |
| | | | 10 \times 12.5 | | 82.5 | 16 | 2,900 | |
| 35V (1V) | 40.3 | 27 | 6.3 \times 5.8 | 0.12 | 9.5 | 60 | 1,300 | |
| | | 33 | | | 11.6 | | | |
| | | 47 | | | 16.5 | | | |
| | | 68 | 6.3 \times 7.7 | | 23.8 | 35 | 2,000 | |
| | | 100 | 8 \times 10 | | 35 | 27 | 2,300 | |
| | | 150 | 8 \times 10 | | 52.5 | 27 | 2,300 | |
| | | 220 | 10 \times 10 | | 77 | 20 | 2,500 | |
| | | 270 | 10 \times 10 | | 94.5 | 20 | 2,500 | |
| 50V (1H) | 57.5 | 22 | 6.3 \times 5.8 | 0.10 | 11 | 80 | 1,100 | |
| | | 33 | 6.3 \times 7.7 | | 16.5 | 40 | 1,600 | |
| | | 47 | 8 \times 10 | | 23.5 | 30 | 1,800 | |
| | | 68 | 8 \times 10 | | 34 | 30 | 1,800 | |
| | | 100 | 10 \times 10 | | 50 | 28 | 2,000 | |
| 63V (1J) | 72.5 | 10 | 6.3 \times 5.8 | 0.08 | 6.3 | 120 | 1,000 | |
| | | 22 | 6.3 \times 7.7 | | 13.9 | 80 | 1,500 | |
| | | 27 | 8 \times 10 | | 17 | 40 | 1,700 | |
| | | 33 | | | 20.8 | | | |
| | | 47 | | | 29.6 | | | |
| | | 56 | 10 \times 10 | | 35.3 | 30 | 1,800 | |
| | | 68 | | | 42.8 | | | |
| | | 82 | | | 51.7 | | | |
| 80V (1K) | 92.0 | 22 | 8 \times 10 | 0.08 | 17.6 | 45 | 1,550 | |
| | | 33 | 10 \times 10 | | 26.4 | 36 | 1,700 | |
| | | 47 | 10 \times 10 | | 37.6 | 36 | 1,700 | |

产品编码说明

HBV系列 220微法拉 \pm 20% 25V 编带 $8\phi \times 10L$ 无铅引线与镀膜铝壳

HBV **221** **M** **1E** **TR** - **0810**

系列名 额定静电容量 额定静电容量容许误差值 额定电压 包装型式 端子型式 制品尺寸 制品引线种类

注: 如需了解更详细介绍, 请参阅目录第15页“贴片型产品编码说明”。

固液混合