

■ Description 产品描述:

Al-Ecap, 220uF, 35v, ±20%, Low ESR, D8H10.5mm, 3000Hrs@105°C, -55~+105°C, SMD.

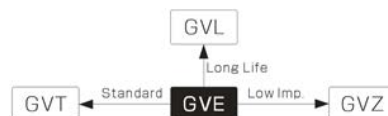
■ Dimension & Marking 印刷及尺寸:



■ Features 特长/用途:

- 105°C, 3,000 hours assured 宽温长寿命
- Low impedance Capacitors 高频低阻抗
- Designed for surface mounting on high density PC board 适合高密度表面安装

■ Serie Expansion 系列拓展



| Items | A | B | C | D | P | L | α | W | H |
|-----------------|-----|-----|---|-----|-----|------|------|---------|---------|
| Case φ8x10.5 | 8.3 | 8.3 | 9 | 8.0 | 3.1 | 10.5 | ±0.5 | 0.8~1.1 | 0.5max. |

| Items 项目 | Performance 性能 | | | | |
|---------------------------------------------------|-----------------------------------------|-----------------------------------------------------|-----------------------------------|-----------------------------------------------------|------|
| Rated Voltage 额定电压(V _R) | 35 V | | | | |
| Capacitance 额定容量(C _R) | 220 uF (120Hz, 20°C) | | | | |
| Category Temperature Range 类别温度范围 | -55°C ~ +105°C | | | | |
| Capacitance Tolerance 容量误差 | -20% ~ +20% (120Hz, 20°C) | | | | |
| Surge Voltage 浪涌电压(V _S) | 40.3 V _{DC} | | | | |
| Leakage Current 泄漏电流(I _{LC}) | I _{LC} ≤ 77 uA After 2 minutes | | | | |
| Dissipation Factor (Tanδ) 损失角正切值 | ≤ 0.12 (120Hz, 20°C) | | | | |
| Impedance 阻抗 (Z, Ω) | ≤ 0.3 (100kHz, 20°C) | | | | |
| Ripple Current 纹波电流(I _{RC, rms}) | 450 mA (100kHz, 105°C) | | | | |
| Low Temperature Characteristics 温度特性(120Hz) | Impedance ratio 阻抗比(Max.) | Z _(-25°C) / Z _(+20°C) | 2 | | |
| | | Z _(-55°C) / Z _(+20°C) | 3 | | |
| Endurance and Shelf Life 耐久性 & 高温无负荷特性 | Items 项目 | Endurance 耐久性 | | Shelf Life Test 高温无负荷 | |
| | Test Time 测试时长 | 3,000 Hrs at 105°C; V _R | | 1,000 Hrs at 105°C | |
| | Cap. Change 容量变化率 | Within ±20% of initial Value ≤ 初始值的 ±20% | | Within ±20% of initial Value ≤ 初始值的 ±20% | |
| | Tanδ 损失角正切值 | Less than 200% of specified Value ≤ 初始规格值的 ±200% | | Less than 200% of specified Value ≤ 初始规格值的 ±200% | |
| Leakage Current 漏电流 | Whitin specified Value ≤ 初始规格值 | | Whitin specified Value ≤ 初始规格值 | | |
| Ripple Current and Frequency Multipliers 纹波电流频率系数 | Frequency (Hz) | 120 | 1k | 10k | 100k |
| | Multiplier | 0.65 | 0.85 | 0.95 | 1.00 |
| Standards 参考标准 | JIS C 5101-1, -18, IEC 60384-4 | | | | |
| Remarks 附注 | RoHS Compliance, Halogen-free | | | | |

* Please refer to "Precautions and Guidelines for Aluminum Electrolytic Capacitors" section in catalog for further details 详细信息请参阅目录中的“铝电解电容器注意事项和指南”

| | | | | |
|-----------------------|------------|-------------|------------|-------------|
| Publication Date 发行日期 | 2022-02-15 | Approved 批准 | Checked 复核 | Designed 设计 |
| Revision Date 修订日期 | | | | |
| Version No. | 1.0 | | | |

Dimension and Permissible Ripple Current 尺寸及纹波电流速查表:

| WV uF | 6.3v(0J) | | | 10v(1A) | | | 16v(1C) | | | 25v(1E) | | | 35v(1V) | | | 50v(1H) | | |
|----------|-------------------|------|------|-------------------|------|------|-------------------|------|------|-------------------|------|------|-------------------|------|------|-------------------|------|------|
| | $\phi D \times L$ | Imp. | R.C. | $\phi D \times L$ | Imp. | R.C. | $\phi D \times L$ | Imp. | R.C. | $\phi D \times L$ | Imp. | R.C. | $\phi D \times L$ | Imp. | R.C. | $\phi D \times L$ | Imp. | R.C. |
| 1 | | | | | | | | | | | | | | | | 4x5.7 | 5.0 | 30 |
| 1.5 | | | | | | | | | | | | | | | | 4x5.7 | 5.0 | 30 |
| 2.2 | | | | | | | | | | | | | | | | 4x5.7 | 5.0 | 30 |
| 3.3 | | | | | | | | | | | | | 4x5.7 | 3.0 | 60 | 4x5.7 | 5.0 | 30 |
| | | | | | | | | | | | | | 5x5.7 | 3.0 | 50 | 5x5.7 | 3.0 | 50 |
| 4.7 | | | | | | | | | | | | | 4x5.7 | 3.0 | 60 | 4x5.7 | 5.0 | 30 |
| | | | | | | | | | | | | | 5x5.7 | 3.0 | 50 | 5x5.7 | 3.0 | 50 |
| 10 | | | | | | | | | | 4x5.7 | 3.0 | 60 | 4x5.7 | 3.0 | 60 | 5x5.7 | 3.0 | 50 |
| | | | | | | | | | | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 2.0 | 70 |
| 15 | | | | | | | 4x5.7 | 3.0 | 60 | 4x5.7 | 3.0 | 60 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 2.0 | 70 |
| | | | | | | | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 2.0 | 70 |
| 22 | | | | 4x5.7 | 3.0 | 60 | 4x5.7 | 3.0 | 60 | 4x5.7 | 3.0 | 60 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 2.0 | 70 |
| | | | | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 2.0 | 70 |
| 33 | | | | 4x5.7 | 3.0 | 60 | 4x5.7 | 3.0 | 60 | 4x5.7 | 3.0 | 60 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 2.0 | 70 |
| | | | | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 1.0 | 140 | 6.3x7.7 | 1.0 | 120 |
| 47 | 4x5.7 | 3.0 | 60 | 4x5.7 | 3.0 | 60 | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 1.0 | 140 |
| | | | | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 |
| 56 | 5x5.7 | 1.8 | 95 | 4x5.7 | 3.0 | 60 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 |
| | | | | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 |
| 68 | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x7.7 | 0.6 | 230 |
| | | | | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x7.7 | 0.6 | 230 | 8x10.5 | 0.6 | 300 |
| 100 | 5x5.7 | 1.8 | 95 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x7.7 | 0.6 | 230 | 8x10.5 | 0.6 | 300 |
| | | | | 6.3x5.7 | 1.0 | 140 | 6.3x7.7 | 0.6 | 230 | 6.3x7.7 | 0.6 | 230 | 6.3x7.7 | 0.6 | 230 | 10x10.5 | 0.3 | 500 |
| 150 | 5x5.7 | 1.8 | 95 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x7.7 | 0.6 | 230 | 6.3x7.7 | 0.6 | 230 | 8x10.5 | 0.3 | 450 |
| | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x7.7 | 0.6 | 230 | 8x10.5 | 0.3 | 450 | 8x10.5 | 0.3 | 450 | 10x10.5 | 0.3 | 500 |
| 220 | 6.3x5.7 | 1.0 | 140 | 6.3x5.7 | 1.0 | 140 | 6.3x7.7 | 0.6 | 230 | 8x10.5 | 0.3 | 450 | 10x10.5 | 0.15 | 670 | 10x10.5 | 0.15 | 670 |
| | 6.3x7.7 | 0.6 | 230 | 6.3x7.7 | 0.6 | 230 | 6.3x7.7 | 0.6 | 230 | 8x10.5 | 0.3 | 450 | 10x10.5 | 0.15 | 670 | 10x12.5 | 0.16 | 580 |
| 330 | 6.3x5.7 | 1.0 | 140 | 6.3x7.7 | 0.6 | 230 | 6.3x7.7 | 0.6 | 230 | 8x10.5 | 0.3 | 450 | 10x10.5 | 0.15 | 670 | | | |
| | 6.3x7.7 | 0.6 | 230 | 6.3x7.7 | 0.6 | 230 | 8x10.5 | 0.3 | 450 | 10x10.5 | 0.15 | 670 | 10x10.5 | 0.15 | 670 | | | |
| 470 | 6.3x7.7 | 0.6 | 230 | 6.3x7.7 | 0.6 | 230 | 8x10.5 | 0.3 | 450 | 10x10.5 | 0.15 | 670 | 10x10.5 | 0.15 | 670 | | | |
| | 8x10.5 | 0.3 | 450 | 8x10.5 | 0.3 | 450 | 8x10.5 | 0.3 | 450 | 10x12.5 | 0.08 | 800 | 10x12.5 | 0.08 | 800 | | | |
| 680 | 8x10.5 | 0.3 | 450 | 8x10.5 | 0.3 | 450 | 8x10.5 | 0.3 | 450 | | | | | | | | | |
| | | | | 10x10.5 | 0.15 | 670 | 10x10.5 | 0.15 | 670 | | | | | | | | | |
| 1000 | 8x10.5 | 0.3 | 450 | 8x10.5 | 0.3 | 450 | 10x10.5 | 0.15 | 670 | | | | | | | | | |
| | | | | 10x10.5 | 0.15 | 670 | | | | | | | | | | | | |
| 1500 | 8x10.5 | 0.3 | 450 | | | | | | | | | | | | | | | |
| | 10x10.5 | 0.15 | 670 | | | | | | | | | | | | | | | |

| WV uF | 63v(1J) | | | 80v(1K) | | | 100v(2A) | | |
|----------|-------------------|------|------|-------------------|------|------|-------------------|------|------|
| | $\phi D \times L$ | Imp. | R.C. | $\phi D \times L$ | Imp. | R.C. | $\phi D \times L$ | Imp. | R.C. |
| 4.7 | 5x5.7 | 3.0 | 50 | | | | | | |
| | | | | | | | | | |
| 10 | 5x5.7 | 3.0 | 50 | 6.3x5.7 | 3.0 | 40 | | | |
| | 6.3x5.7 | 1.5 | 80 | 6.3x7.7 | 2.4 | 60 | 6.3x7.7 | 2.4 | 60 |
| 22 | 6.3x5.7 | 1.5 | 80 | 6.3x7.7 | 2.4 | 60 | | | |
| | 6.3x7.7 | 1.2 | 120 | 8x10.5 | 1.5 | 110 | 8x10.5 | 1.5 | 110 |
| 33 | 6.3x7.7 | 1.2 | 120 | | | | | | |
| | 8x10.5 | 0.7 | 250 | 8x10.5 | 1.5 | 110 | 8x10.5 | 1.5 | 110 |
| 47 | | | | | | | | | |
| | | | | | | | | | |
| 56 | 8x10.5 | 0.65 | 250 | 8x10.5 | 1.5 | 110 | 10x10.5 | 0.8 | 170 |
| 68 | 8x10.5 | 0.65 | 250 | 8x10.5 | 1.5 | 110 | 10x10.5 | 0.8 | 170 |
| 82 | 8x10.5 | 0.65 | 250 | 10x10.5 | 0.8 | 170 | 10x10.5 | 0.8 | 170 |
| | 10x10.5 | 0.35 | 400 | 10x10.5 | 0.8 | 170 | | | |
| 100 | 10x10.5 | 0.35 | 400 | 10x10.5 | 0.8 | 170 | | | |
| 150 | 10x10.5 | 0.35 | 400 | | | | | | |