

GAM series

■ 特性 Features

- SMD 贴片 SMD Type
- 105°C 2000~10000Hrs



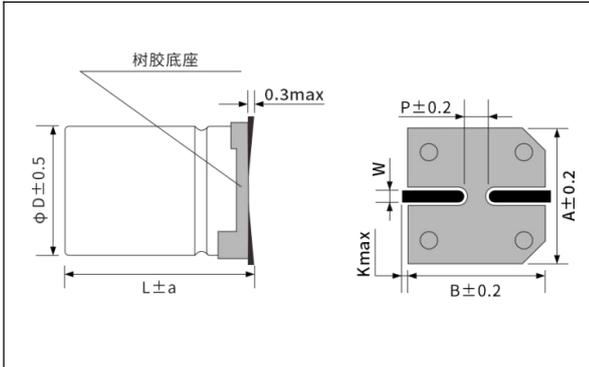
■ 仕样 Specification

| 项目 Item | 条件 Condition | 性能 Performance |
|-----------------------------------|---|---|
| 使用温度范 Operating Temperature Range | - | -55°C~+105°C |
| 额定电压范围 Rated Voltage Range | - | 6.3~100V |
| 额定静电容量范 Rated Capacitance Range | - | 0.1~470μF |
| 额定静电容量容许差 Capacitance Tolerance | 120Hz, 20°C | ±20% |
| 漏电流 Leakage current | 施加额定电压 2 分钟后 After applying rated voltage for 2 minutes | $I \leq 0.01CV$ 或 $10\mu A$ (以较大值为准) $I \leq 0.01CV$ or $10\mu A$ (whichever is greater) |
| 损失角正切值 Dissipation Factor | 120Hz, 20°C | 不超过指定的值 Not exceeding the specified value |
| 耐久性 Endurance | 在 105°C 环境下, 施加额定工作电压并叠加纹波电流, 恢复到 20°C 后, 电容器应满足如下要求 Under 105°C, apply rated voltage and superimpose ripple current, then return to 20°C, The capacitors shall meet the following requirements. | |
| | 静电容量变化率 Capacitance Change | 初始值的 ±20% 以内 Within ±20% of initial value |
| | 漏电流 Leakage Current | 初始值以内 Within initial value |
| | 等效串联电阻 ESR | 初始标准值的 150% 以下 ≤150% of initial standard value |
| | 损失角正切值 Dissipation Factor(tan δ) | 初始标准值的 150% 以下 ≤150% of initial standard value |
| 耐湿性 Moisture Resistance | 存放在 60°C, 湿度 90~95%, 1000H Stored at 60°C, RH90~95%, 1000H | |
| | 静电容量变化率 Capacitance Change | 初始值的 ±20% 以内 Within ±20% of initial value |
| | 漏电流 Leakage Current | 初始值以内 Within initial value |
| | 等效串联电阻 ESR | 初始标准值的 150% 以下 ≤150% of initial standard value |
| | 损失角正切值 Dissipation Factor(tan δ) | 初始标准值的 150% 以下 ≤150% of initial standard value |

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尺寸图 Dimensions

(Unit:mm)

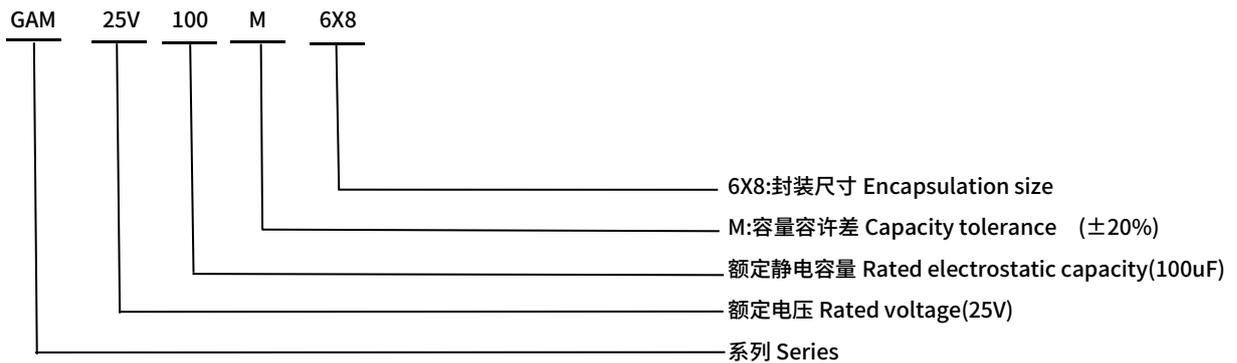


| ΦdXL | A | B | W | P | K | a |
|---------|------|------|---------|-----|---------|-----|
| 6.3x7.7 | 6.6 | 6.6 | 0.5~0.9 | 2.1 | 0.5±0.2 | 0.5 |
| 8x10 | 8.3 | 8.3 | 0.8~1.1 | 3.1 | 0.5±0.2 | 0.5 |
| 8x12.5 | 8.3 | 8.3 | 0.8~1.1 | 3.1 | 0.5±0.2 | 0.5 |
| 10x10 | 10.3 | 10.3 | 0.8~1.1 | 4.5 | 0.5±0.2 | 0.5 |
| 10x12.5 | 10.3 | 10.3 | 0.8~1.1 | 4.5 | 0.5±0.2 | 0.5 |

纹波电流速查表 Ripple Current Quick Reference Table:

| 频率 Frequency | 120Hz≤Fre.<1KHz | 1KHz≤Fre.<10KHz | 10KHz≤Fre.<100KHz | 100KHz≤Fre.<300KHz |
|--------------------|-----------------|-----------------|-------------------|--------------------|
| 纹波修正系数 Coefficient | 0.05 | 0.3 | 0.7 | 1.0 |

品号编码体系 Part Number Coding System (Example: 25V 100μF)



注释: 型号中 R 表示小数点, 如 4R7 表示 4.7μF

Note: "R" in the model number denotes a decimal point (e.g., 4R7 = 4.7μF)

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■ 电气特性 Electrical characteristics

| 额定电压 Rated Voltage(V) | 额定静容量 Rated Capacitance(μF) | 损失角正切值 tan δ (120Hz,20°C) | 等效串联电阻 ESR (mΩ,100KHz) | 额定纹波电流 Rated Ripple Current (mA,105°C,100KHz) | 铝壳尺寸 Case Size Φ DXL(mm) | 品号 Part Number |
|-----------------------------|-----------------------------------|---------------------------------|------------------------------|---|--------------------------------|-------------------|
| 25 | 100 | 8 | 30 | 2000 | 6.3X7.7 | GAM25V100M6X8 |
| 25 | 220 | 8 | 20 | 2100 | 8X10 | GAM25V220M8X10 |
| 25 | 330 | 8 | 20 | 2400 | 10X10 | GAM25V330M10X10 |
| 35 | 68 | 8 | 30 | 1800 | 6.3X7.7 | GAM35V68M6X8 |
| 35 | 100 | 8 | 25 | 2300 | 8X10 | GAM35V100M8X10 |
| 35 | 150 | 8 | 25 | 2300 | 8X10 | GAM35V150M8X10 |
| 35 | 270 | 8 | 20 | 2500 | 10X10 | GAM35V270M10X10 |
| 50 | 33 | 8 | 30 | 1500 | 6.3X7.7 | GAM50V33M6X8 |
| 50 | 47 | 8 | 25 | 1800 | 8X10 | GAM50V47M8X10 |
| 50 | 68 | 8 | 25 | 1800 | 8X10 | GAM50V68M8X10 |
| 50 | 100 | 8 | 20 | 2000 | 10X10 | GAM50V100M10X10 |
| 63 | 22 | 8 | 30 | 1400 | 6.3X7.7 | GAM63V22M6X8 |
| 63 | 33 | 8 | 25 | 1600 | 8X10 | GAM63V33M8X10 |
| 63 | 56 | 8 | 25 | 1800 | 10X10 | GAM63V56M10X10 |
| 80 | 22 | 8 | 30 | 1500 | 8X10 | GAM80V22M8X10 |
| 80 | 33 | 8 | 25 | 1700 | 10X10 | GAM80V33M10X10 |