

# TA series

## ■ 特性 Feature

- SMD 贴片 SMD Mounting
- 105°C 2000Hrs



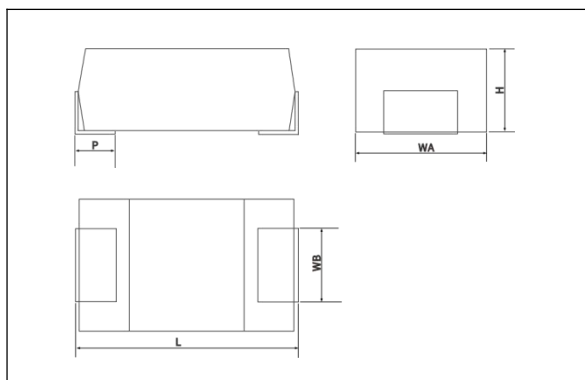
## ■ 仕様 Specification

| 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                | -                                                                                       | 2.0-25V                                                 |
| 额定静电容量范 Rated Capacitance Range           | -                                                                                       | 33~470µF                                                |
| 额定静电容量容许差 Capacitance Tolerance           | 120Hz, 20°C                                                                             | M:±20%;L:-35%~+10%                                      |
| 漏损电流 Leakage current                      | 施加额定电压 2 分钟后 After applying rated voltage for 2 minutes                                 | $I \leq 0.1CV(2V \sim 10V); I \leq 0.3CV(10V \sim 25V)$ |
| 耗散因子 Dissipation Factor (tanδ)            | -                                                                                       | 不超过指定的值<br>Not exceeding specified value                |
| 直流负载测试<br>DC Load Test                    | 105°C, 2000h, 施加额定电压<br>105°C, 2000h, under rated voltage                               |                                                         |
|                                           | 外观 Appearance                                                                           | 没有明显损伤 No visible damage                                |
|                                           | 静电容量变化率<br>Capacitance Change Rate                                                      | 初始值的±20%以内<br>Within ±20% of initial value              |
|                                           | 漏损电流<br>Leakage Current                                                                 | 规格值以内<br>Within specified value                         |
|                                           | 损失角正切率<br>Dissipation Factor(tanδ)                                                      | 初始规格值的 150%以内<br>Within 150% of initial value           |
| 恒温恒湿<br>Constant Temperature and Humidity | 在 60°C温度、湿度为 90~95%条件下放置 500 小时, 无外加电压<br>60°C,90~95% humidity,500h, no applied voltage |                                                         |
|                                           | 外观<br>Appearance                                                                        | 没有明显损伤<br>No visible damage                             |
|                                           | 静电容量变化率<br>Capacitance Change Rate                                                      | +70%, -20%的初始值<br>+70%, -20% of initial value           |
|                                           | 漏损电流 Leakage Current                                                                    | 规格值以内<br>Within specified value                         |
|                                           | 损失角正切率<br>Dissipation Factor(tanδ)                                                      | 初始规格值的 200%以内<br>Within 200% of initial specified value |

# TA series

## ■ 尺寸图 Dimensions

(Unit:mm)

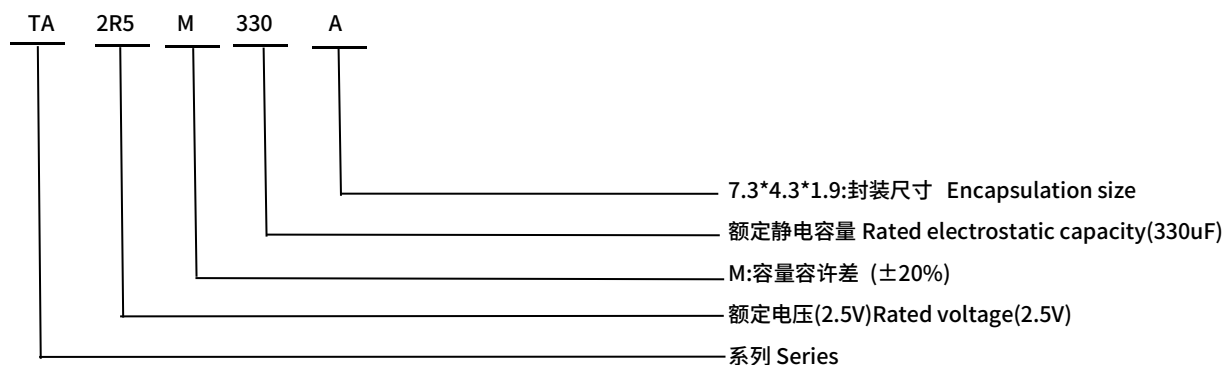


| Size | L       | WA      | WB      | H       | P       |
|------|---------|---------|---------|---------|---------|
| A    | 7.3±0.3 | 4.3±0.3 | 2.4±0.2 | 1.9±0.3 | 1.3±0.2 |
| B    | 7.3±0.3 | 4.3±0.3 | 2.4±0.2 | 2.8±0.3 | 1.3±0.2 |
| C    | 7.3±0.3 | 4.3±0.3 | 2.4±0.2 | 4.0±0.3 | 1.3±0.2 |

## ■ 纹波电流温度补偿系数 Ripple Current Temperature Compensation Factor:

| 温度 Temperature<br>电压 Voltage | ≤45°C | 45°C<T≤85°C | 85°C<T≤105°C |
|------------------------------|-------|-------------|--------------|
| 2V~6.3V                      | 1.0   | 0.7         | 0.25         |
| 10V ~ 25V                    | 1.0   | 0.8         | 0.5          |

## ■ 品号编码体系 Product Code System (Example: 2.5V 330μF)



注释: 型号中 R 表示小数点, 如 2R5 表示 2.5V

Note: "R" in the model number represents a decimal point. e.g., 2R5 means 2.5V

# TA series

## ■ 电气特性 Electrical characteristics

| 额定电压<br>Rated<br>Voltage<br>(V) | 额定静电容量<br>Rated<br>Capacitance<br>( $\mu$ F) | 漏电流<br>Leakage<br>Current<br>( $\mu$ A,2min) | 损失角正切值<br>Dissipation<br>Factor<br>(120Hz,20°C) | 等效串联电阻<br>ESR<br>(m $\Omega$ ,100KHz) | 额定纹波电流<br>Rated Ripple<br>Current<br>(mA,45°C,100KHz) | 尺寸<br>Dimensions<br>$\Phi$ DXL(mm) | 品号<br>Part Number |
|---------------------------------|----------------------------------------------|----------------------------------------------|-------------------------------------------------|---------------------------------------|-------------------------------------------------------|------------------------------------|-------------------|
| 2                               | 330                                          | 66                                           | 0.06                                            | 9                                     | 6300                                                  | 7.3*4.3*1.9                        | TA2R0M330A        |
|                                 | 470                                          | 94                                           | 0.06                                            | 9                                     | 6300                                                  | 7.3*4.3*1.9                        | TA2R0M470A        |
| 2.5                             | 330                                          | 82.5                                         | 0.06                                            | 9                                     | 6300                                                  | 7.3*4.3*1.9                        | TA2R5M330A        |
|                                 | 470                                          | 117.5                                        | 0.06                                            | 9                                     | 6300                                                  | 7.3*4.3*1.9                        | TA2R5M470A        |
| 6.3                             | 100                                          | 63                                           | 0.06                                            | 40                                    | 3200                                                  | 7.3*4.3*1.9                        | TA6R3M100A        |
|                                 | 150                                          | 94.5                                         | 0.06                                            | 30                                    | 5100                                                  | 7.3*4.3*1.9                        | TA6R3M150A        |
|                                 | 220                                          | 138.6                                        | 0.06                                            | 18                                    | 5100                                                  | 7.3*4.3*1.9                        | TA6R3M220A        |
| 10                              | 100                                          | 100                                          | 0.06                                            | 40                                    | 3200                                                  | 7.3*4.3*1.9                        | TA10R0M100A       |
|                                 | 150                                          | 150                                          | 0.06                                            | 40                                    | 2200                                                  | 7.3*4.3*1.9                        | TA10R0M150A       |
|                                 | 220                                          | 220                                          | 0.06                                            | 30                                    | 2200                                                  | 7.3*4.3*1.9                        | TA10R0L220A       |
| 16                              | 100                                          | 160                                          | 0.1                                             | 40                                    | 2200                                                  | 7.3*4.3*1.9                        | TA16R0M100A       |