

# TA series

## ■ 特性 Feature

- SMD 贴片 SMD Mounting
- 105°C 2000Hrs



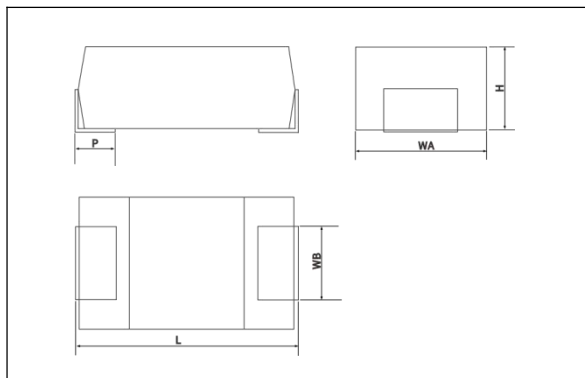
## ■ 仕様 Specification

| 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                                 | $I \leq 0.1CV(2V \sim 10V); I \leq 0.3CV(10V \sim 25V)$ |
| 损失角正切值 Dissipation Factor              | -                                                                                       | 不超过指定的值<br>Not exceeding specified value                |
| 耐久性 Endurance                          | 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 Capacitance Change                                                              | 初始值的±20%以内<br>Within ±20% of initial value              |
|                                        | 漏损电流 Leakage Current                                                                    | 规格值以内<br>Within specified value                         |
|                                        | 损失角正切值 Dissipation Factor(tan δ)                                                        | 初始规格值的 150%以内<br>Within 150% of initial value           |
|                                        |                                                                                         |                                                         |
| 恒温恒湿 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 Appearance                                                                           | 没有明显损伤 No visible damage                                |
|                                        | 静电容量变化率 Capacitance Change                                                              | +70%, -20%的初始值<br>+70%, -20% of initial value           |
|                                        | 漏电流 Leakage Current                                                                     | 规格值以内<br>Within specified value                         |
|                                        | 损失角正切值 Dissipation Factor(tan δ)                                                        | 初始规格值的 200%以内<br>Within 200% of initial specified value |
|                                        |                                                                                         |                                                         |

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## ■ 尺寸图 Dimensions

(Unit:mm)

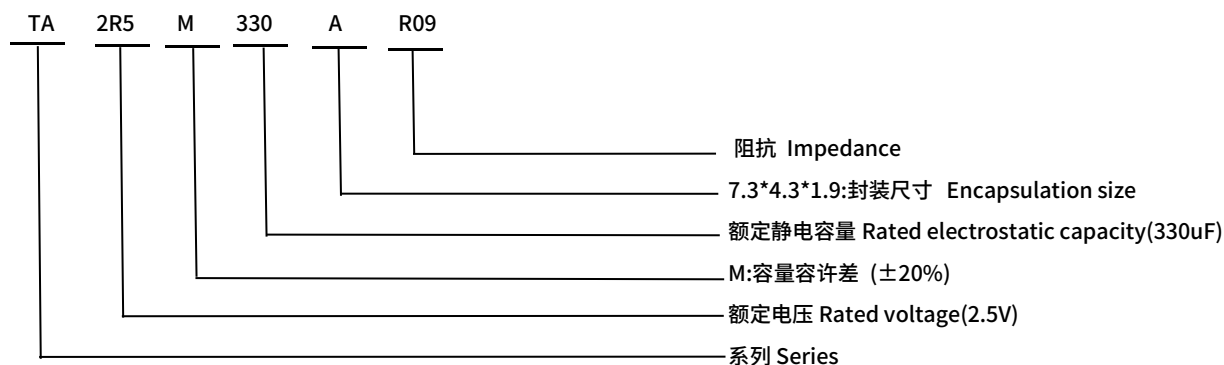


| Size | L       | WA      | WB      | H       | P       |
|------|---------|---------|---------|---------|---------|
| A    | 7.3±0.3 | 4.3±0.3 | 2.4±0.2 | 1.9±0.3 | 1.3±0.2 |
| B    | 7.3±0.3 | 4.3±0.3 | 2.4±0.2 | 2.8±0.3 | 1.3±0.2 |
| C    | 7.3±0.3 | 4.3±0.3 | 2.4±0.2 | 4.0±0.3 | 1.3±0.2 |

## ■ 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

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## ■ 电气特性 Electrical characteristics

| 额定电压<br>Rated Voltage<br>(V) | 额定静电容容量<br>Rated Capacitance<br>(μF) | 漏电流<br>Leakage Current<br>(μA,2min) | 损失角正切值<br>Dissipation Factor<br>(120Hz,20°C) | 等效串联电阻<br>ESR<br>(mΩ,100KHz) | 额定纹波电流<br>Rated Ripple Current<br>(mA,45°C,100KHz) | 尺寸<br>Dimensions<br>ΦDXL(mm) | 品号<br>Part Number |
|------------------------------|--------------------------------------|-------------------------------------|----------------------------------------------|------------------------------|----------------------------------------------------|------------------------------|-------------------|
| 2                            | 220                                  | 44                                  | 0.06                                         | 9                            | 6300                                               | 7.3*4.3*1.9                  | TA2R0M220AR09     |
|                              | 330                                  | 66                                  | 0.06                                         | 6                            | 7500                                               | 7.3*4.3*1.9                  | TA2R0M330AR06     |
|                              | 330                                  | 66                                  | 0.06                                         | 9                            | 6300                                               | 7.3*4.3*1.9                  | TA2R0M330AR09     |
|                              | 470                                  | 94                                  | 0.06                                         | 4                            | 8000                                               | 7.3*4.3*1.9                  | TA2R0M470AR04     |
|                              | 470                                  | 94                                  | 0.06                                         | 6                            | 7500                                               | 7.3*4.3*1.9                  | TA2R0M470AR06     |
|                              | 470                                  | 94                                  | 0.06                                         | 9                            | 6300                                               | 7.3*4.3*1.9                  | TA2R0M470AR09     |
|                              | 560                                  | 112                                 | 0.06                                         | 4.5                          | 8200                                               | 7.3*4.3*1.9                  | TA2R0M560AR4.5    |
| 2.5                          | 220                                  | 55                                  | 0.06                                         | 9                            | 6300                                               | 7.3*4.3*1.9                  | TA2R5M220AR09     |
|                              | 330                                  | 82.5                                | 0.06                                         | 6                            | 7500                                               | 7.3*4.3*1.9                  | TA2R5M330AR06     |
|                              | 330                                  | 82.5                                | 0.06                                         | 9                            | 6300                                               | 7.3*4.3*1.9                  | TA2R5M330AR09     |
|                              | 470                                  | 118                                 | 0.06                                         | 4                            | 8000                                               | 7.3*4.3*1.9                  | TA2R5M470AR04     |
|                              | 470                                  | 118                                 | 0.06                                         | 6                            | 7500                                               | 7.3*4.3*1.9                  | TA2R5M470AR06     |
|                              | 470                                  | 117.5                               | 0.06                                         | 9                            | 6300                                               | 7.3*4.3*1.9                  | TA2R5M470AR09     |
| 4                            | 220                                  | 88                                  | 0.06                                         | 15                           | 5100                                               | 7.3*4.3*1.9                  | TA4R0M220AR15     |
|                              | 330                                  | 132                                 | 0.06                                         | 9                            | 5100                                               | 7.3*4.3*1.9                  | TA4R0M330AR09     |
| 6.3                          | 100                                  | 63                                  | 0.06                                         | 40                           | 3200                                               | 7.3*4.3*1.9                  | TA6R3M100AR40     |
|                              | 150                                  | 94.5                                | 0.06                                         | 20                           | 5100                                               | 7.3*4.3*1.9                  | TA6R3M150AR20     |
|                              | 150                                  | 94.5                                | 0.06                                         | 30                           | 5100                                               | 7.3*4.3*1.9                  | TA6R3M150AR30     |
|                              | 150                                  | 94.5                                | 0.06                                         | 40                           | 5100                                               | 7.3*4.3*1.9                  | TA6R3M150AR40     |
|                              | 220                                  | 138.6                               | 0.06                                         | 18                           | 5100                                               | 7.3*4.3*1.9                  | TA6R3M220AR18     |
|                              | 220                                  | 139                                 | 0.06                                         | 30                           | 5100                                               | 7.3*4.3*1.9                  | TA6R3M220AR30     |
|                              | 330                                  | 208                                 | 0.06                                         | 15                           | 5100                                               | 7.3*4.3*1.9                  | TA6R3L330AR15     |
|                              | 330                                  | 208                                 | 0.06                                         | 30                           | 5100                                               | 7.3*4.3*1.9                  | TA6R3L330AR30     |
| 10                           | 47                                   | 47                                  | 0.06                                         | 50                           | 5000                                               | 7.3*4.3*1.9                  | TA10R0M47AR50     |
|                              | 100                                  | 100                                 | 0.06                                         | 40                           | 3200                                               | 7.3*4.3*1.9                  | TA10R0M100AR40    |
|                              | 150                                  | 150                                 | 0.06                                         | 40                           | 2200                                               | 7.3*4.3*1.9                  | TA10R0M150AR40    |
|                              | 220                                  | 220                                 | 0.06                                         | 30                           | 2200                                               | 7.3*4.3*1.9                  | TA10R0L220AR30    |
| 16                           | 47                                   | 75.2                                | 0.06                                         | 60                           | 3200                                               | 7.3*4.3*1.9                  | TA16R0M47AR60     |
|                              | 68                                   | 108.8                               | 0.06                                         | 45                           | 3200                                               | 7.3*4.3*1.9                  | TA16R0M68AR45     |
|                              | 100                                  | 160                                 | 0.1                                          | 40                           | 2200                                               | 7.3*4.3*1.9                  | TA16R0M100AR40    |
| 25                           | 56                                   | 140                                 | 0.06                                         | 60                           | 3200                                               | 7.3*4.3*1.9                  | TA25R0M056AR60    |