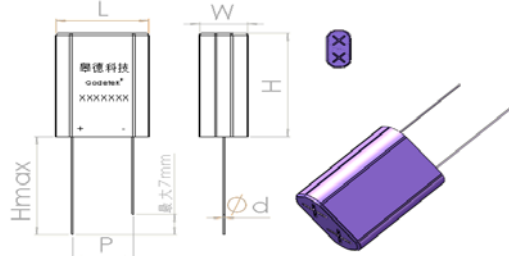
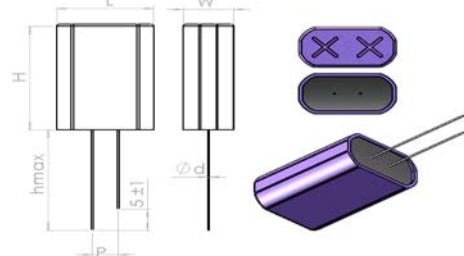


灌胶模组图示 Dimentions (mm)

| 规格    | Φ6.3  | Φ8   | Φ10  |
|-------|-------|------|------|
| L±1   | 14    | 18   | 22   |
| W±1   | 7     | 9.6  | 11.6 |
| H     | H±1.5 |      |      |
| P±0.5 | 9     | 11.8 | 15.5 |



| 规格    | Φ6.3  | Φ8  | Φ10  |
|-------|-------|-----|------|
| L±1   | 14    | 18  | 22   |
| W±1   | 7     | 9.6 | 11.6 |
| H     | H±1.5 |     |      |
| P±0.5 | 4     | 5.0 | 5.0  |



产品规格 Specifications

| 项目 Item                    | 性能 Performance |                |
|----------------------------|----------------|----------------|
| 封装方式                       | 灌胶模组           | 灌胶模组           |
| 工作电压 Working Voltage       | 5.5V. DC       | 6.0V. DC       |
| 浪涌电压 Surge Voltage         | 5.7V. DC       | 6.15V. DC      |
| 容量范围 Nominal Cap. Range    | 0.22F to 5.0F  | 0.22F to 5.0F  |
| 工作温度 Operating Temperature | -40°C to +85°C | -40°C to +65°C |



典型产品 Standard Products

| 产品编码<br>Part number | 额定电压<br>Rated Voltage (V) | 标称容量<br>Rated Cap. (F) | 尺寸<br>Size<br>L×W×H (mm) | 最大内阻<br>Max. ESR |            | 最大漏电流<br>Maximum Leakage Current (72hrs/μA) | 额定电流<br>Rated current (A) | 峰值电流<br>Peak Current (A) | 功率密度<br>Power Density (kW/kg) | 最大能量<br>Maximum Energy (mWh) | 能量密度<br>Energy Density (Wh/kg) |
|---------------------|---------------------------|------------------------|--------------------------|------------------|------------|---------------------------------------------|---------------------------|--------------------------|-------------------------------|------------------------------|--------------------------------|
|                     |                           |                        |                          | ESRAC (1kHz/mΩ)  | ESRDC (mΩ) |                                             |                           |                          |                               |                              |                                |
| GDE05R5R224L0612GG  | 5.5                       | 0.22                   | 14×7×19                  | 1000             | 2000       | 0.004                                       | 0.11                      | 0.42                     | 1.37                          | 0.92                         | 0.33                           |
| GDE05R5R474L0612GG  | 5.5                       | 0.47                   | 14×7×19                  | 600              | 1200       | 0.006                                       | 0.23                      | 0.83                     | 2.20                          | 1.97                         | 0.69                           |
| GDE05R5R474L0812GG  | 5.5                       | 0.47                   | 18×9.6×17                | 400              | 800        | 0.006                                       | 0.24                      | 0.94                     | 2.21                          | 1.97                         | 0.46                           |
| GDE05R5K105L0812GG  | 5.5                       | 1.0                    | 18×9.6×17                | 360              | 720        | 0.008                                       | 0.48                      | 1.60                     | 2.31                          | 4.20                         | 0.93                           |
| GDE05R5K105L0816GG  | 5.5                       | 1.0                    | 18×9.6×21                | 280              | 560        | 0.008                                       | 0.49                      | 1.76                     | 2.74                          | 4.20                         | 0.85                           |
| GDE05R5K155L0816GG  | 5.5                       | 1.5                    | 18×9.6×21                | 220              | 440        | 0.011                                       | 0.73                      | 2.48                     | 3.36                          | 6.30                         | 1.23                           |
| GDM05R5P155SGQGA    | 5.5                       | 1.5                    | 18×9.6×25                | 350              | 700        | 0.011                                       | 0.68                      | 2.01                     | 1.87                          | 6.30                         | 1.09                           |
| GDM05R5K255SGQGAC   | 5.5                       | 2.5                    | 18×9.6×25                | 190              | 380        | 0.015                                       | 1.16                      | 3.53                     | 3.32                          | 10.50                        | 1.75                           |
| GDE05R5K255L1020GG  | 5.5                       | 2.5                    | 22×11.6×25               | 160              | 320        | 0.015                                       | 1.19                      | 3.82                     | 2.98                          | 10.50                        | 1.33                           |
| GDE05R5K355L1020GG  | 5.5                       | 3.5                    | 22×11.6×25               | 140              | 280        | 0.020                                       | 1.61                      | 4.86                     | 2.85                          | 14.70                        | 1.55                           |
| GDE05R5K505L1025GG  | 5.5                       | 5.0                    | 22×11.6×32               | 120              | 240        | 0.030                                       | 2.22                      | 6.25                     | 2.89                          | 21.01                        | 1.93                           |
| GDE06R0R224L0612GG  | 6.0                       | 0.22                   | 14×7×19                  | 1000             | 2000       | 0.008                                       | 0.12                      | 0.46                     | 1.62                          | 1.10                         | 0.40                           |
| GDE06R0R474L0612GG  | 6.0                       | 0.47                   | 14×7×19                  | 600              | 1200       | 0.012                                       | 0.25                      | 0.90                     | 2.61                          | 2.35                         | 0.82                           |
| GDE06R0R474L0812GG  | 6.0                       | 0.47                   | 18×9.6×17                | 400              | 800        | 0.012                                       | 0.26                      | 1.02                     | 2.63                          | 2.35                         | 0.55                           |
| GDE06R0K105L0812GG  | 6.0                       | 1.0                    | 18×9.6×17                | 360              | 720        | 0.016                                       | 0.52                      | 1.74                     | 2.75                          | 5.00                         | 1.10                           |
| GDE06R0K105L0816GG  | 6.0                       | 1.0                    | 18×9.6×21                | 280              | 560        | 0.016                                       | 0.54                      | 1.92                     | 3.27                          | 5.00                         | 1.02                           |
| GDE06R0K155L0816GG  | 6.0                       | 1.5                    | 18×9.6×21                | 220              | 440        | 0.022                                       | 0.80                      | 2.71                     | 4.00                          | 7.50                         | 1.46                           |
| GDM06R0K155SGLGA    | 6.0                       | 1.5                    | 18×9.6×25                | 350              | 700        | 0.022                                       | 0.74                      | 2.20                     | 2.22                          | 7.50                         | 1.30                           |
| GDE06R0K255L0820GG  | 6.0                       | 2.5                    | 18×9.6×25                | 190              | 380        | 0.030                                       | 1.26                      | 3.85                     | 3.95                          | 12.50                        | 2.08                           |
| GDE06R0K255L1020GG  | 6.0                       | 2.5                    | 22×11.6×25               | 160              | 320        | 0.030                                       | 1.29                      | 4.17                     | 3.55                          | 12.50                        | 1.58                           |
| GDE06R0K355L1020GG  | 6.0                       | 3.5                    | 22×11.6×25               | 140              | 280        | 0.040                                       | 1.76                      | 5.30                     | 3.39                          | 17.50                        | 1.85                           |
| GDE06R0K505L1025GG  | 6.0                       | 5.0                    | 22×11.6×32               | 120              | 240        | 0.060                                       | 2.42                      | 6.82                     | 3.44                          | 25.00                        | 2.29                           |

PS: 特殊规格可定制, 详情咨询!

## >>> 产品可靠性测试项目及方法 Product reliability test

| 项目 Item                              | 性能 Performance Characteristic                                                                                                                          |                                          |                                           |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------|
| 温度特性<br>Temperature characteristics  | 温度temperature: TMin±2℃                                                                                                                                 | 85℃                                      | ‘-40℃                                     |
|                                      | 测试时长 duration of storage:                                                                                                                              | 16h                                      | 2h                                        |
|                                      | 容量变化 Capacitance Change                                                                                                                                | ≤ 初始值的30%<br>≤ 30% of initial value      | ≤ 初始值的30%<br>≤ 30% of initial value       |
|                                      | 内阻变化 Internal Resistance                                                                                                                               | ≤ 规定值<br>≤ Regulated value               | ≤ 规定值的4倍<br>≤ 4 times the specified value |
|                                      | 外观变化 Appearance                                                                                                                                        | 无显著变化<br>No remarkable change            | 无显著变化<br>No remarkable change             |
| 高温负荷寿命<br>High temperature load life | 额定电压 nominal voltage                                                                                                                                   | 5.5V                                     | 6.0V                                      |
|                                      | 温度temperature:                                                                                                                                         | 85℃                                      | 65℃                                       |
|                                      | 测试时长duration of testing: 1,000h                                                                                                                        |                                          |                                           |
|                                      | 容量变化 Capacitance Change                                                                                                                                | ≤ 初始值的30%<br>≤ 30% of initial value      |                                           |
|                                      | 内阻变化 Internal Resistance                                                                                                                               | ≤ 规定值的4倍<br>≤ 4 times of specified value |                                           |
|                                      | 外观变化 Appearance                                                                                                                                        | 无显著变化<br>No remarkable change            |                                           |
| 高温存储<br>High temperature storage     | 温度temperature: 85℃<br>测试时长duration of testing: 1,000±4h                                                                                                |                                          |                                           |
|                                      | 容量变化 Capacitance Change                                                                                                                                | ≤ 初始值的30%<br>≤ 30% of initial value      |                                           |
|                                      | 内阻变化 Internal Resistance                                                                                                                               | ≤ 规定值的4倍<br>≤ 4 times of specified value |                                           |
|                                      | 外观变化 Appearance                                                                                                                                        | 无显著变化<br>No remarkable change            |                                           |
| 湿热特性<br>Humidity characteristic      | 电压voltage: 额定电压nominal voltage<br>温度temperature: 40±2℃<br>相对湿度relative humidity: 90%~95%RH<br>测试时长duration of testing: 240h                            |                                          |                                           |
|                                      | 容量变化 Capacitance Change                                                                                                                                | ≤ 初始值的30%<br>≤ 30% of initial value      |                                           |
|                                      | 内阻变化 Internal Resistance                                                                                                                               | ≤ 规定值的4倍<br>≤ 4 times of specified value |                                           |
|                                      | 外观变化 Appearance                                                                                                                                        | 无显著变化<br>No remarkable change            |                                           |
| 循环寿命<br>Cycle life characteristics   | 在25℃下，用恒定电流使电容器在额定电压和半额定电压间循环充放电50万次。<br>Capacitors cycles between rated voltage and half rated voltage under constant current at +25℃ (500,000cycles) |                                          |                                           |
|                                      | 容量变化 Capacitance Change                                                                                                                                | ≤ 初始值的30%<br>≤ 30% of initial value      |                                           |
|                                      | 内阻变化 Internal Resistance                                                                                                                               | ≤ 规定值的4倍<br>≤ 4 times of specified value |                                           |
|                                      | 外观变化 Appearance                                                                                                                                        | 无显著变化<br>No remarkable change            |                                           |