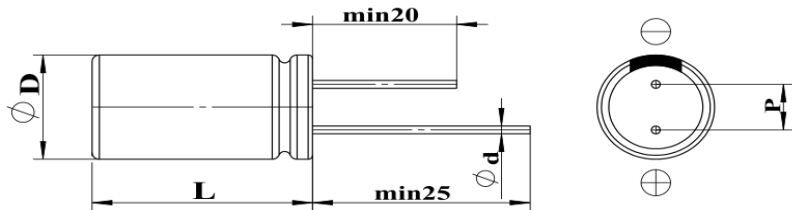


**导针型尺寸图示 Dimentions (mm)**


| $\Phi D \pm 1.0$ | $P \pm 0.5$ | $\Phi d \pm 0.1$ | L           |
|------------------|-------------|------------------|-------------|
| 6.3              | 2.6         | 0.6              | $L \pm 1.5$ |
| 8                | 3.5         | 0.6              |             |
| 10               | 5.0         | 0.6              |             |
| 12.5             | 5.0         | 0.6              |             |
| 16               | 7.5         | 0.8              |             |
| 18               | 7.5         | 0.8              |             |

**产品规格 Specifications**

| 项目 Item                    | 性能 Performance |
|----------------------------|----------------|
| 工作电压 Working Voltage       | 2.7V. DC       |
| 浪涌电压 Surge Voltage         | 2.85V. DC      |
| 容量范围 Nominal Cap. Range    | 1.0 F to 60 F  |
| 工作温度 Operating Temperature | -40°C ~ +70°C  |


**典型产品 Standard Products**

| 产品编码<br>Part number | 额定电压<br>Rated Voltage<br>(V) | 标称容量<br>Rated Cap.<br>(F) | 尺寸<br>Size                | 最大内阻<br>Max. ESR   |               | 最大漏电流<br>Maximum Leakage Current<br>(72hrs/mA) | 额定电流 Rated current<br>(A) | 峰值电流<br>Peak Current<br>(A) | 功率密度<br>Power Density<br>(kW/kg) | 最大能量<br>Maximum Energy<br>(mWh) | 能量密度<br>Energy Density<br>(Wh/kg) |
|---------------------|------------------------------|---------------------------|---------------------------|--------------------|---------------|------------------------------------------------|---------------------------|-----------------------------|----------------------------------|---------------------------------|-----------------------------------|
|                     |                              |                           | $\phi D \times L$<br>(mm) | ESRAC<br>(1kHz/mΩ) | ESRDC<br>(mΩ) |                                                |                           |                             |                                  |                                 |                                   |
| GDW02R7S105L0812RD  | 2.7                          | 1.0                       | 8x12                      | 200                | 400           | 0.008                                          | 0.25                      | 0.96                        | 5.01                             | 1.01                            | 1.11                              |
| GDW02R7K205L0812RD  | 2.7                          | 2.0                       | 8x12                      | 170                | 340           | 0.010                                          | 0.48                      | 1.61                        | 5.36                             | 2.03                            | 2.03                              |
| GDW02R7K205L0816RD  | 2.7                          | 2.0                       | 8x16                      | 130                | 260           | 0.010                                          | 0.49                      | 1.78                        | 5.79                             | 2.03                            | 1.67                              |
| GDW02R7K335L0820RD  | 2.7                          | 3.3                       | 8x20                      | 115                | 230           | 0.014                                          | 0.77                      | 2.53                        | 5.28                             | 3.34                            | 2.23                              |
| GDW02R7K505L0825RD  | 2.7                          | 5.0                       | 8x25                      | 85                 | 170           | 0.016                                          | 1.15                      | 3.65                        | 5.92                             | 5.06                            | 2.80                              |
| GDW02R7P505L1020RD  | 2.7                          | 5.0                       | 10x20                     | 70                 | 140           | 0.016                                          | 1.18                      | 3.97                        | 5.92                             | 5.06                            | 2.30                              |
| GDW02R7K705L1020RD  | 2.7                          | 7.0                       | 10x20                     | 70                 | 140           | 0.020                                          | 1.58                      | 4.77                        | 5.68                             | 7.09                            | 3.09                              |
| GDW02R7K106LD1025   | 2.7                          | 10                        | 10x25                     | 60                 | 120           | 0.030                                          | 2.18                      | 6.14                        | 5.69                             | 10.13                           | 3.79                              |
| GDW02R7R106L1220RD  | 2.7                          | 10                        | 12.5x20                   | 50                 | 100           | 0.030                                          | 2.25                      | 6.75                        | 5.28                             | 10.13                           | 2.93                              |
| GDW02R7K156L1225RD  | 2.7                          | 15                        | 12.5x25                   | 45                 | 90            | 0.045                                          | 3.19                      | 8.62                        | 4.82                             | 15.19                           | 3.62                              |
| GDW02R7K206L1225RD  | 2.7                          | 20                        | 12.5x25                   | 35                 | 70            | 0.060                                          | 4.22                      | 11.25                       | 6.13                             | 20.25                           | 4.76                              |
| GDW02R7K206L1230RD  | 2.7                          | 20                        | 12.5x30                   | 40                 | 80            | 0.060                                          | 4.09                      | 10.38                       | 4.56                             | 20.25                           | 4.05                              |
| GDW02R7K256L1230RD  | 2.7                          | 25                        | 12.5x30                   | 35                 | 70            | 0.080                                          | 5.00                      | 12.27                       | 5.18                             | 25.31                           | 5.03                              |
| GDW02R7K256L1625RG  | 2.7                          | 25                        | 16x25                     | 30                 | 60            | 0.080                                          | 5.19                      | 13.50                       | 4.31                             | 25.31                           | 3.59                              |
| GDW02R7K306L1625RG  | 2.7                          | 30                        | 16x25                     | 30                 | 60            | 0.100                                          | 5.96                      | 14.46                       | 4.03                             | 30.38                           | 4.03                              |
| GDW02R7K356L1630RG  | 2.7                          | 35                        | 16x30                     | 26                 | 52            | 0.110                                          | 6.93                      | 16.76                       | 4.30                             | 35.44                           | 4.35                              |
| GDW02R7K406L1634RG  | 2.7                          | 40                        | 16x34                     | 22                 | 44            | 0.120                                          | 7.99                      | 19.57                       | 4.47                             | 40.50                           | 4.37                              |
| GDW02R7K506L1840RG  | 2.7                          | 50                        | 18x40                     | 22                 | 44            | 0.140                                          | 9.38                      | 21.09                       | 3.60                             | 50.63                           | 4.40                              |
| GDW02R7K606L1840RG  | 2.7                          | 60                        | 18x40                     | 22                 | 44            | 0.160                                          | 10.60                     | 22.25                       | 3.31                             | 60.75                           | 4.86                              |

PS: 特殊规格可定制, 详情咨询!

## &gt;&gt;&gt; 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℃                                                                                                                                 | 70℃                                      | ‘-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                                                                                                                                   | 2.7V                                     |                                           |
|                                      | 温度temperature:                                                                                                                                         | 70℃                                      |                                           |
|                                      | 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: 70℃<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2倍<br>≤ 2 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>相对湿度relative humidity: 90%~95%<br>测试时长duration of testing: 240h<br>温度temperature: 40±2℃                              |                                          |                                           |
|                                      | 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            |                                           |