

SM

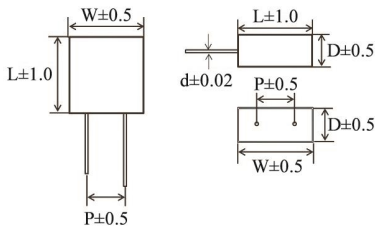
- ◆ Epoxy Resin Package
- ◆ High Capacity, High Power, Internal Tandem Structure
- ◆ Low ESR, Long Charge and Discharge Life Cycle
- ◆ Low LC, Combined with Battery
- ◆ Customization Based on Customer Requirement



Specifications

| Items | Characteristics | | |
|-----------------------------|---|--|------------|
| Temperature Range | -40°C~+70°C | | |
| Rated Voltage Range | 5.5V.DC , 6.0V.DC | | |
| Capacitance Range | Custom-made Capacitance (see product list) | Capacitance Tolerance | ±20%(20°C) |
| Temperature Characteristics | +70% | Δc/c(+20°C) ≤ 30%, ESR≤specified value | |
| | -40% | Δc/c(+20°C) ≤ 40%, ESR≤4 times of the specified value | |
| Endurance | The specification should be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 70°C. | | |
| | Capacitance change | Within ±30% of the intial capacitance value | |
| | ESR | 400% or less than the intial specified value | |
| Shelf Life | The specification should be met when the capacitors are restored to 20°C after storing under no load for 1000 hours at 70°C. | | |
| | Capacitance change | Within ±30% of the intial capacitance value | |
| | ESR | 300% or less than the intial specified value | |
| Life | > 500000 times | Δc/c(+20°C) ≤ 30%, ESR≤4 times of the specified value | |

Standard Size (Size:mm)



| Size W×D | Foot pitch P | Lead diameter Φd |
|-----------|--------------|------------------|
| 17.5×9 | 11.5 | 0.6 |
| 22.5×11.5 | 15.5 | 0.6 |

Product Size

| Series | Rated Voltage (Vdc) | Capacitance Range (F) | Size W×D×L (mm) | Internal ESR AC (mΩ,1KHz) | 24h LC(μA) | Part Number | |
|--------|---------------------|-----------------------|-----------------|---------------------------|------------|---------------|---------------|
| | | | | | | 5.5V | 6V |
| SM | 5.5V 6V | 0.5 | 17.5×9×17 | 400 | 2 | SM5R5M5041817 | SM6R0M5041817 |
| | | 1 | 17.5×9×21 | 240 | 4 | SM5R5M1051821 | SM6R0M1051821 |
| | | 1.5 | 17.5×9×26 | 200 | 6 | SM5R5M1551825 | SM6R0M1551826 |
| | | 2.5 | 22.5×11.5×26.5 | 140 | 10 | SM5R5M2552327 | SM6R0M2552327 |
| | | 3.5 | 22.5×11.5×26.5 | 120 | 15 | SM5R5M3552327 | SM6R0M3552327 |
| | | 5 | 22.5×11.5×31.5 | 100 | 20 | SM5R5M5052332 | SM6R0M5052332 |

Applications

- ◆ For Smart Meters(water meters, gas meters and electric meters), Concentrators
- ◆ Smart Power Grid and Auxilaurities