

# SM series

## Features

- ★ SMD贴片
- ★ 105°C 2000-10000Hrs

## Specifications

| item   | Performance Characteristics  |  |
|--|--|--|
| Operating Temperature Range                          | -55~+105°C   |  |
| Rated Voltage Range                                  | 2.5~100vdc   |  |
| Capacitance Tolerance                                | ±20%(120Hz,+20°C)  |  |
| Leakage Current(+20°C,max)                           | ≤0.2CV or 300uA whichever is greater (After rated voltage applied for 2 minutes) |  |
| Dissipation Factor(tanδ,at 20°C,120Hz)               | Not exceed the value specified   |  |
| ESR(100KHz)  | Not exceed the value specified   |  |
| Endurance<br>105°C,2000-10000h,at rated voltage      | Capacitance Change   | Within ±20% of the value before test   |
|  | Leakage Current  | Not exceed the value specified         |
|  | ESR  | Not exceed 150% of the value specified |
|  | Dissipation Factor   | Not exceed 150% of the value specified |
| Moisture Resistance<br>Stored at 60°C,RH90~95%,1000h | Capacitance Change   | Within ±20% of the value before test   |
|  | Leakage Current  | Not exceed the value specified         |
|  | ESR  | Not exceed 150% of the value specified |
|  | Dissipation Factor   | Not exceed 150% of the value specified |

## Frequency Coefficient for Ripple Current

| Frequency   | 120Hz≤freq.<1KHz | 1KHz≤freq.<10KHz | 10KHz≤freq.<100KHz | 100KHz≤freq.<300KHz |
|-------------|------------------|------------------|--------------------|---------------------|
| Coefficient | 0.05             | 0.3              | 0.7                | 1                   |

## Size

Unit: mm

| Dimensions | ΦDXL    | A±0.2 | H±0.3 | W         | P   | K(max)  | L            |
|------------|---------|-------|-------|-----------|-----|---------|--------------|
|            | 6.3x5   | 6.6   | 7.2   | 0.58~0.98 | 2.1 | 0.5±0.2 | 6+0.5/-0.3   |
|            | 6.3x6   | 6.6   | 7.2   | 0.58~0.98 | 2.1 | 0.5±0.2 | 7.4+0.5/-0.3 |
|            | 6.3x7   | 6.6   | 7.2   | 0.58~0.98 | 2.1 | 0.5±0.2 | 7.7+0.5/-0.3 |
|            | 6.3x8   | 6.6   | 7.2   | 0.58~0.98 | 2.1 | 0.5±0.2 | 9+0.5/-0.3   |
|            | 6.3x9   | 6.6   | 7.2   | 0.58~0.98 | 2.1 | 0.5±0.2 | 10+0.5/-0.3  |
|            | 8x8     | 8.3   | 9     | 0.8~1.1   | 3.1 | 0.5±0.2 | 9±0.5        |
|            | 8x10    | 8.3   | 9     | 0.8~1.1   | 3.1 | 0.5±0.2 | 10.3±0.5     |
|            | 8x11.5  | 8.3   | 9     | 0.8~1.1   | 3.1 | 0.5±0.2 | 12.1±0.5     |
|            | 10x10   | 10.3  | 11    | 0.8~1.1   | 4.5 | 0.5±0.2 | 10.2±0.5     |
|            | 10x11.5 | 10.3  | 11    | 0.8~1.1   | 4.5 | 0.5±0.2 | 12.2±0.5     |
|            | 10x12.5 | 10.3  | 11    | 0.8~1.1   | 4.5 | 0.5±0.2 | 13.2±0.5     |

| 料号             | 规格               | 系列 | WV  | CAP | LC   | DF | ESR | RIPPLE | SIZE    |
|----------------|------------------|----|-----|-----|------|----|-----|--------|---------|
| SM107M016E0500 | SM16V100 6.3X5   | SM | 16  | 100 | 320  | 10 | 28  | 2690   | 6.3X5   |
| SM107M050F0800 | SM50V100 8X8     | SM | 50  | 100 | 1000 | 10 | 28  | 2900   | 8X8     |
| SM107M063G1000 | SM63V100 10X10   | SM | 63  | 100 | 1000 | 10 | 30  | 3100   | 10X10   |
| SM227M035E0800 | SM35V220 6.3X8   | SM | 35  | 220 | 1000 | 10 | 25  | 2900   | 6.3X8   |
| SM227M050G1000 | SM50V220 10X10   | SM | 50  | 220 | 1000 | 10 | 35  | 3500   | 10X10   |
| SM227M6R3E0500 | SM6.3V220 6.3X5  | SM | 6.3 | 220 | 300  | 10 | 25  | 2690   | 6.3X5   |
| SM337M035G1000 | SM35V330 10X10   | SM | 35  | 330 | 1000 | 10 | 21  | 3800   | 10X10   |
| SM476M100G1150 | SM100V47 10X11.5 | SM | 100 | 47  | 940  | 12 | 40  | 2900   | 10X11.5 |
| SM477M025F1000 | SM25V470 8X10    | SM | 25  | 470 | 1000 | 10 | 25  | 3800   | 8X10    |
| SM567M035G1250 | SM35V560 10X12.5 | SM | 35  | 560 | 1000 | 10 | 18  | 3800   | 10X12.5 |