

VZ series

- Endurance: 2,000 hours at 105°C
- Standard substance
- Recommended Applications: Display Card & System Board
- RoHS Compliant and lead-free

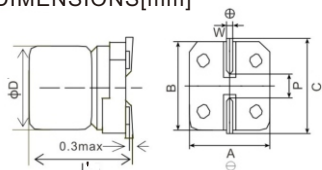


SPECIFICATIONS

| Items | Characteristics | |
|---|--|--------------------------------------|
| Category Temperature Range | -55~+105°C | |
| Rated Working Voltage Range | 2.5~100 V _{dc} | |
| Nominal Capacitance Range | 22~2200μF | |
| Capacitance Tolerance | ±20%(M) (at 20°C,120Hz) | |
| DC Leakage Current | I≤0.2CV or 500μA, whichever is greater. Where, I:Max.leakage current (μA),C:Nominal capacitance (μF),V: Rated voltage (V) (at 20°C after 2 minutes) | |
| Dissipation Factor (tanδ) | Rated Voltage(V _{dc}) | 2.5 6.3 10 16 25 35 50 63 80 100 |
| | Dissipation Factor (Max.) | 0.08 0.12 0.15 (at 20°C,120Hz) |
| ESR(100kHz,20°C) | Value in characteristics table | |
| Temperature Characteristics (Impedance Ratio at 100kHz) | Z(+105°C)/Z(+20°C)≤1.25 Z(-55°C)/Z(+20°C)≤1.25 | |
| Endurance | After applying rated voltage for 2,000 hours at 105°C, the capacitors shall meet the following requirements. | |
| | Appearance | No significant damage |
| | Capacitance Change | ≤±20% of the initial value |
| | Dissipation Factor | ≤150% of the initial specified value |
| | ESR | ≤150% of the initial specified value |
| | Leakage Current | ≤The initial specified value |
| Humidity Test | After subjecting 90 ~ 95% RH for 2,000 hours at 60 °no voltage, The capacitors shall meet the requirement as Endurance. | |
| Surge Test | After subjecting to 1,000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the following requirements. | |
| | Appearance | No significant damage |
| | Capacitance Change | ≤±20% of the initial value |
| | Dissipation Factor | ≤150% of the initial specified value |
| | ESR | ≤150% of the initial specified value |
| | Leakage Current | ≤The initial specified value |

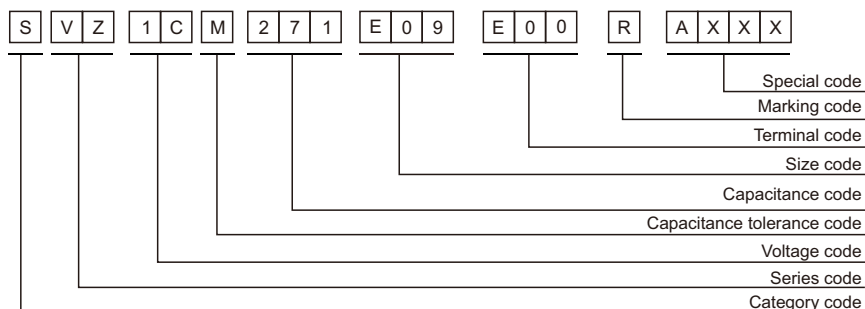
*Note: If any doubt arises, measure the leakage current after the following voltage treatment.
Voltage treatment: DC rated voltage is applied to the capacitors for 120 minutes at 105°C.

DIMENSIONS[mm]



| Size Code | 6.3 | 8 | 10 |
|-----------|-------------|---------|---------|
| P±0.2 | 1.9 | 3.1 | 4.5 |
| W±0.2 | 6.6 | 8.3 | 10.3 |
| H±0.2 | 6.6 | 8.3 | 10.3 |
| C±0.2 | 7.2 | 9.0 | 11.0 |
| W | 0.5~0.8 | 0.7~1.1 | 0.7~1.1 |
| ØD' | ØD-0.1~+0.5 | | |
| L' | L±0.5 | | |

PART NUMBERING SYSTEM



Conductive Polymer Surface Mount Type

VZ series

■ STANDARD RATINGS

| WV (Vdc) | Cap (μF) | Size ΦDxL(mm) | ESR (mΩ, 20°C, 100kHz) (max.) | Rated ripple current (mA rms/105°C, 100kHz) | Leakage Current (μA)(max.) | Part Number |
|----------|----------|---------------|-------------------------------|---|----------------------------|----------------------|
| 2.5 | 220 | 6.3×4.5 | 20 | 2700 | 500 | SVZ0EM221E4RE00RAXXX |
| | 330 | 6.3×4.5 | 20 | 2700 | 500 | SVZ0EM331E4RE00RAXXX |
| | 330 | 6.3×6 | 20 | 2700 | 500 | SVZ0EM331E06E00RAXXX |
| | 390 | 6.3×6 | 20 | 2800 | 500 | SVZ0EM391E06E00RAXXX |
| | 470 | 6.3×6 | 20 | 2900 | 500 | SVZ0EM471E06E00RAXXX |
| | 560 | 6.3×6 | 20 | 3000 | 500 | SVZ0EM561E06E00RAXXX |
| | 680 | 6.3×9 | 15 | 4300 | 500 | SVZ0EM681E09E00RAXXX |
| 6.3 | 220 | 6.3×4.5 | 20 | 2700 | 500 | SVZ0JM221E4RE00RAXXX |
| | 220 | 6.3×6 | 20 | 2800 | 500 | SVZ0JM221E06E00RAXXX |
| | 270 | 6.3×6 | 20 | 3000 | 500 | SVZ0JM271E06E00RAXXX |
| | 330 | 6.3×6 | 20 | 2100 | 500 | SVZ0JM331E06E00RAXXX |
| | 470 | 6.3×9 | 15 | 3500 | 592 | SVZ0JM471E09E00RAXXX |
| | 560 | 6.3×9 | 15 | 3700 | 706 | SVZ0JM561E09E00RAXXX |
| | 1000 | 8×11.5 | 15 | 4300 | 1260 | SVZ0JM102FBRE00RAXXX |
| | 1500 | 8×11.5 | 15 | 4400 | 1890 | SVZ0JM152FBRE00RAXXX |
| | 2200 | 10×12.5 | 15 | 5600 | 2772 | SVZ0JM222GCRE00RAXXX |
| | 10 | 100 | 6.3×4.5 | 50 | 2500 | 500 |
| 120 | | 6.3×6 | 30 | 2700 | 500 | SVZ1AM121E06E00RAXXX |
| 220 | | 6.3×6 | 30 | 2700 | 500 | SVZ1AM221E06E00RAXXX |
| 220 | | 6.3×9 | 20 | 3000 | 500 | SVZ1AM221E09E00RAXXX |
| 330 | | 6.3×9 | 20 | 3100 | 660 | SVZ1AM331E09E00RAXXX |
| 470 | | 6.3×9 | 30 | 3400 | 940 | SVZ1AM471E09E00RAXXX |
| 470 | | 8×9.5 | 22 | 3400 | 940 | SVZ1AM471F9RE00RAXXX |
| 560 | | 8×11.5 | 20 | 3600 | 1120 | SVZ1AM561FBRE00RAXXX |
| 560 | | 10×12.5 | 20 | 5000 | 1120 | SVZ1AM561GCRE00RAXXX |
| 1000 | | 8×11.5 | 15 | 4200 | 2000 | SVZ1AM102FBRE00RAXXX |
| 1000 | | 10×12.5 | 15 | 4400 | 2000 | SVZ1AM102GCRE00RAXXX |
| 1500 | | 10×12.5 | 15 | 4400 | 3000 | SVZ1AM152GCRE00RAXXX |
| 16 | 47 | 6.3×4.5 | 50 | 2000 | 500 | SVZ1CM470E4RE00RAXXX |
| | 47 | 6.3×6 | 40 | 1700 | 500 | SVZ1CM470E06E00RAXXX |
| | 68 | 6.3×6 | 40 | 2000 | 500 | SVZ1CM680E06E00RAXXX |
| | 100 | 6.3×4.5 | 50 | 2000 | 500 | SVZ1CM101E4RE00RAXXX |
| | 100 | 6.3×6 | 30 | 2400 | 500 | SVZ1CM101E06E00RAXXX |
| | 120 | 6.3×4.5 | 50 | 2000 | 500 | SVZ1CM121E4RE00RAXXX |
| | 150 | 6.3×6 | 30 | 2400 | 500 | SVZ1CM151E06E00RAXXX |
| | 150 | 6.3×9 | 25 | 2600 | 500 | SVZ1CM151E09E00RAXXX |
| | 180 | 6.3×6 | 60 | 2500 | 576 | SVZ1CM181E06E00RAXXX |
| | 180 | 6.3×9 | 25 | 2700 | 576 | SVZ1CM181E09E00RAXXX |
| | 220 | 6.3×9 | 25 | 2500 | 704 | SVZ1CM221E09E00RAXXX |
| | 270 | 6.3×9 | 25 | 2600 | 864 | SVZ1CM271E09E00RAXXX |
| | 270 | 8×9.5 | 25 | 2800 | 864 | SVZ1CM271F9RE00RAXXX |
| | 330 | 6.3×9 | 25 | 2600 | 1056 | SVZ1CM331E09E00RAXXX |
| | 330 | 8×11.5 | 20 | 4000 | 1056 | SVZ1CM331FBRE00RAXXX |
| | 330 | 10×12.5 | 20 | 5000 | 1056 | SVZ1CM331GCRE00RAXXX |
| | 560 | 8×11.5 | 20 | 3500 | 1792 | SVZ1CM561FBRE00RAXXX |
| | 680 | 10×12.5 | 20 | 4000 | 2176 | SVZ1CM681GCRE00RAXXX |
| 1000 | 10×12.5 | 20 | 4100 | 3200 | SVZ1CM102GCRE00RAXXX | |
| 25 | 22 | 6.3×4.5 | 100 | 400 | 500 | SVZ1EM220E4RE00RAXXX |
| | 22 | 6.3×6 | 80 | 1600 | 500 | SVZ1EM220E06E00RAXXX |
| | 27 | 6.3×6 | 50 | 1100 | 500 | SVZ1EM270E06E00RAXXX |
| | 33 | 6.3×4.5 | 100 | 400 | 500 | SVZ1EM330E4RE00RAXXX |
| | 47 | 6.3×4.5 | 100 | 400 | 500 | SVZ1EM470E4RE00RAXXX |
| | 47 | 6.3×6 | 50 | 1800 | 500 | SVZ1EM470E06E00RAXXX |
| | 47 | 6.3×9 | 35 | 2000 | 500 | SVZ1EM470E09E00RAXXX |
| | 56 | 6.3×4.5 | 60 | 1000 | 500 | SVZ1EM560E4RE00RAXXX |
| | 56 | 6.3×6 | 50 | 1800 | 500 | SVZ1EM560E06E00RAXXX |
| | 68 | 6.3×4.5 | 60 | 900 | 500 | SVZ1EM680E4RE00RAXXX |
| | 68 | 6.3×6 | 50 | 1800 | 500 | SVZ1EM680E06E00RAXXX |
| | 100 | 6.3×4.5 | 60 | 1000 | 500 | SVZ1EM101E4RE00RAXXX |
| | 100 | 6.3×6 | 50 | 2100 | 500 | SVZ1EM101E06E00RAXXX |
| | 100 | 6.3×9 | 30 | 2400 | 500 | SVZ1EM101E09E00RAXXX |
| | 150 | 6.3×9 | 30 | 2500 | 750 | SVZ1EM151E09E00RAXXX |
| | 220 | 6.3×9 | 30 | 2500 | 1100 | SVZ1EM221E09E00RAXXX |
| | 220 | 8×11.5 | 30 | 2600 | 1100 | SVZ1EM221FBRE00RAXXX |
| | 330 | 8×11.5 | 30 | 2700 | 1650 | SVZ1EM331FBRE00RAXXX |
| | 330 | 10×12.5 | 22 | 2800 | 1650 | SVZ1EM331GCRE00RAXXX |
| | 470 | 8×11.5 | 30 | 2800 | 2350 | SVZ1EM471FBRE00RAXXX |
| 470 | 10×12.5 | 22 | 3100 | 2350 | SVZ1EM471GCRE00RAXXX | |
| 560 | 10×12.5 | 22 | 3300 | 2800 | SVZ1EM561GCRE00RAXXX | |
| 680 | 10×12.5 | 22 | 3300 | 3400 | SVZ1EM681GCRE00RAXXX | |
| 35 | 22 | 6.3×6 | 60 | 1100 | 500 | SVZ1VM220E06E00RAXXX |
| | 27 | 6.3×6 | 60 | 1100 | 500 | SVZ1VM270E06E00RAXXX |
| | 33 | 6.3×6 | 60 | 1100 | 500 | SVZ1VM330E06E00RAXXX |
| | 47 | 6.3×6 | 45 | 1100 | 500 | SVZ1VM470E06E00RAXXX |
| | 47 | 6.3×9 | 50 | 1500 | 500 | SVZ1VM470E09E00RAXXX |
| | 68 | 6.3×6 | 45 | 1100 | 500 | SVZ1VM680E06E00RAXXX |
| | 68 | 6.3×9 | 40 | 1800 | 500 | SVZ1VM680E09E00RAXXX |
| | 100 | 6.3×9 | 40 | 2100 | 700 | SVZ1VM101E09E00RAXXX |
| | 100 | 8×9.5 | 40 | 2800 | 700 | SVZ1VM101F9RE00RAXXX |
| | 100 | 8×11.5 | 30 | 3000 | 700 | SVZ1VM101FBRE00RAXXX |
| | 150 | 8×11.5 | 30 | 3000 | 1050 | SVZ1VM151FBRE00RAXXX |
| | 220 | 8×11.5 | 30 | 2400 | 1540 | SVZ1VM221FBRE00RAXXX |
| | 270 | 8×11.5 | 30 | 2500 | 1890 | SVZ1VM271FBRE00RAXXX |

VZ series

■ STANDARD RATINGS

| WV (Vdc) | Cap (μF) | Size ΦDxL(mm) | ESR (mΩ,20°C,100kHz)(max.) | Rated ripple current (mA _{rms} /105°C,100kHz) | Leakage Current (μA)(max.) | Part Number |
|----------|----------|---------------|----------------------------|--|----------------------------|----------------------|
| 35 | 270 | 10×12.5 | 30 | 2700 | 1890 | SVZ1VM271GCRE00RAXXX |
| | 330 | 10×12.5 | 30 | 2700 | 2310 | SVZ1VM331GCRE00RAXXX |
| | 470 | 10×12.5 | 30 | 3000 | 3290 | SVZ1VM471GCRE00RAXXX |
| 50 | 22 | 6.3×6 | 80 | 800 | 500 | SVZ1HM220E06E00RAXXX |
| | 33 | 6.3×6 | 80 | 850 | 500 | SVZ1HM330E06E00RAXXX |
| | 47 | 6.3×9 | 60 | 1400 | 500 | SVZ1HM470E09E00RAXXX |
| | 68 | 8×11.5 | 30 | 2000 | 680 | SVZ1HM680FBRE00RAXXX |
| | 82 | 8×11.5 | 30 | 2000 | 820 | SVZ1HM820FBRE00RAXXX |
| | 82 | 10×12.5 | 30 | 2000 | 820 | SVZ1HM820GCRE00RAXXX |
| | 100 | 8×11.5 | 30 | 2000 | 1000 | SVZ1HM101FBRE00RAXXX |
| | 100 | 10×12.5 | 30 | 2100 | 1000 | SVZ1HM101GCRE00RAXXX |
| | 120 | 8×11.5 | 30 | 2000 | 1200 | SVZ1HM121FBRE00RAXXX |
| | 150 | 10×12.5 | 30 | 2100 | 1500 | SVZ1HM151GCRE00RAXXX |
| | 220 | 10×12.5 | 30 | 2300 | 2200 | SVZ1HM221GCRE00RAXXX |
| 63 | 22 | 6.3×6 | 80 | 450 | 500 | SVZ1JM220E06E00RAXXX |
| | 33 | 6.3×9 | 60 | 500 | 500 | SVZ1JM330E09E00RAXXX |
| | 47 | 8×9.5 | 60 | 1000 | 592 | SVZ1JM470F9RE00RAXXX |
| | 56 | 8×11.5 | 40 | 1400 | 706 | SVZ1JM560FBRE00RAXXX |
| | 100 | 10×12.5 | 40 | 1600 | 1260 | SVZ1JM101GCRE00RAXXX |
| 80 | 27 | 8×11.5 | 50 | 600 | 500 | SVZ1BM270FBRE00RAXXX |
| | 47 | 10×12.5 | 50 | 900 | 752 | SVZ1BM470GCRE00RAXXX |
| | 68 | 10×12.5 | 50 | 900 | 1088 | SVZ1BM680GCRE00RAXXX |
| 100 | 22 | 8×11.5 | 50 | 600 | 500 | SVZ1KM220FBRE00RAXXX |
| | 47 | 10×12.5 | 50 | 900 | 940 | SVZ1KM470GCRE00RAXXX |

※ Specifications subject to change without notice.