

VZ Series

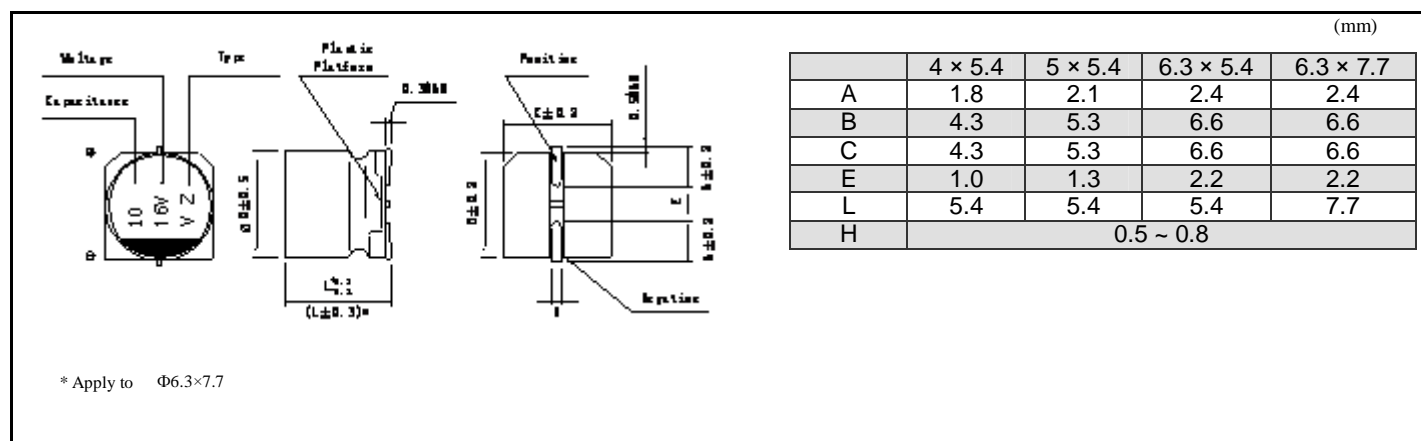
Features

- ◆ Low impedance, 1000 hours at 105°C .
- ◆ Chip Type Aluminum Electrolytic Capacitors .
- ◆ Reflow soldering is available .
- ◆ available for high density surface mounting .
- ◆ (-55°C ~ +105°C) Operating over wide temperature range .
- ◆ RoHS Compliant .

Specifications

| Item | Performance Characteristics | | | | | |
|--|---|------|--|------|------|------|
| Temperature Range | -55℃ ~+105℃ | | | | | |
| Rated Voltage Range | 6.3V ~ 35Vdc | | | | | |
| Capacitance Range | 1 ~ 220μF | | | | | |
| Capacitance Tolerance | ±20%（20℃，120Hz） | | | | | |
| Leakage Current （+20℃,max.） | I≤0.01C _R U _R or 3(μA) Whichever is greater(at 20℃, after 2 minutes) C _R : Nominal Capacitance (μF) U _R : Rated voltages (V) | | | | | |
| Dissipation Factor (Max) （tgδ）20℃, 120Hz | U _R (V) | 6.3 | 10 | 16 | 25 | 35 |
| | tgδ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 |
| Endurance | After 1000 hours' application of rated voltage at 105℃, the capacitor shall meet the following requirement: | | | | | |
| | Capacitance Change | | Within ±20% of the initial value(≤16V: within ±25% of the initial value) | | | |
| | Dissipation Factor | | Not more than 200% of the initial specified value | | | |
| | Leakage Current | | Not more than the initial specified value | | | |
| Shelf Life | After storage for 1000 hours at +105℃, the capacitors shall meet the requirement of load life above | | | | | |
| Low Temperature Stability Impedance Ratio (120Hz) | U _R (V) | 6.3 | 10 | 16 | 25 | 35 |
| | Z(-25℃)/Z(+20℃) | 2 | 2 | 2 | 2 | 2 |
| | Z(-55℃)/Z(+20℃) | 4 | 4 | 3 | 3 | 3 |
| Resistance to Soldering Heat | The capacitors shall be kept on the hot plate maintained at 250℃ for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement. | | | | | |
| | Capacitance Change | | Within ±10% of the initial value | | | |
| | Dissipation Factor | | Not more than the initial specified value | | | |
| | Leakage Current | | Not more than the initial specified value | | | |

Diagram of Dimensions



Nominal capacitance, rated voltage, rated ripple current and case size table

| Voltage | 6.3 | | | 10 | | | 16 | | | 25 | | | 35 | | |
|---------|-----------|-------------|-------|-----------|-------------|-------|-----------|-------------|-------|-----------|-------------|-------|-----------|-------------|-------|
| Cap(μF) | Case Size | Impedance Ω | I~ mA | Case Size | Impedance Ω | I~ mA | Case Size | Impedance Ω | I~ mA | Case Size | Impedance Ω | I~ mA | Case Size | Impedance Ω | I~ mA |
| 1.0 | | | | | | | | | | | | | 4×5.4 | 5.0 | 50 |
| 2.2 | | | | | | | | | | | | | 4×5.4 | 5.0 | 50 |
| 3.3 | | | | | | | | | | | | | 4×5.4 | 5.0 | 50 |
| 4.7 | | | | | | | | | | 4×5.4 | 5.0 | 50 | 4×5.4 | 5.0 | 50 |
| 6.8 | | | | | | | | | | 4×5.4 | 5.0 | 50 | 5×5.4 | 2.6 | 80 |
| 10 | | | | | | | 4×5.4 | 5.0 | 50 | 5×5.4 | 2.6 | 80 | 5×5.4 | 2.6 | 80 |
| 22 | 4×5.4 | 5.0 | 50 | 5×5.4 | 2.6 | 80 | 5×5.4 | 2.6 | 80 | 6.3×5.4 | 1.3 | 115 | 6.3×5.4 | 1.3 | 115 |
| 33 | 5×5.4 | 2.6 | 80 | 5×5.4 | 2.6 | 80 | 6.3×5.4 | 1.3 | 115 | 6.3×5.4 | 1.3 | 115 | 6.3×7.7 | 0.8 | 150 |
| 47 | 5×5.4 | 2.6 | 80 | 6.3×5.4 | 1.3 | 115 | 6.3×5.4 | 1.3 | 115 | 6.3×7.7 | 0.8 | 150 | 6.3×7.7 | 0.8 | 150 |
| 68 | 6.3×5.4 | 1.3 | 115 | 6.3×5.4 | 1.3 | 115 | 6.3×7.7 | 0.8 | 150 | 6.3×7.7 | 0.8 | 150 | | | |
| 100 | 6.3×5.4 | 1.3 | 115 | 6.3×7.7 | 0.8 | 150 | 6.3×7.7 | 0.8 | 150 | | | | | | |
| 220 | 6.3×7.7 | 0.8 | 150 | | | | | | | | | | | | |

Max Allowable Ripple Current (mA,rms) at 105℃ 100KHz, Max Impedance(Ω) at 20℃ 100 KHz,Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices .

Frequency coefficient of ripple current

| Frequency | 50Hz | 120Hz | 300Hz | 1KHz | 10KHz~100Hz |
|-------------|------|-------|-------|------|-------------|
| Coefficient | 0.64 | 0.50 | 0.64 | 0.83 | 1.00 |