

VXR SERIES
105°C 7000 hours, Snap-in Terminal Type.
◆FEATURES

- Load Life : 105°C 7000hours.
- RoHS compliance.


◆SPECIFICATIONS

| Items | Characteristics | | |
|--|--|--|---------|
| Category Temperature Range | -25~+105°C | | |
| Rated Voltage Range | 160~450V.DC | | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | | |
| Leakage Current(MAX) | $I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I =Leakage Current(µA) C =Rated Capacitance(µF) V =Rated Voltage(V) | | |
| (tanδ) Dissipation Factor(MAX) | Rated Voltage (V) | 160~250 | 315~450 |
| | tan δ | 0.15 | 0.20 |
| Low Temperature Stability Impedance Ratio(MAX) | Rated Voltage (V) | 160~250 | 315~450 |
| | Z(-25°C)/Z(20°C) | 3 | 8 |
| Endurance | After applying rated voltage with rated ripple current for 7000hrs at 105°C, the capacitors shall meet the following requirements. | | |
| | Capacitance Change | Within ±20% of the initial value. | |
| | Dissipation Factor | Not more than 200% of the specified value. | |
| | Leakage Current | Not more than the specified value. | |

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

| Frequency (Hz) | 60(50) | 120 | 500 | 1k | 10k ≤ | |
|----------------|-----------|------|------|------|-------|------|
| Coefficient | 160~250WV | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 315~450WV | 0.80 | 1.00 | 1.20 | 1.25 | 1.40 |

◆PART NUMBER

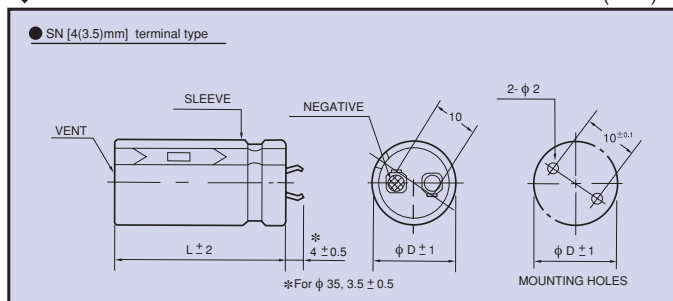
| | | | | | | |
|---------------|--------|-------------------|-----------------------|--------|---------------|-----------|
| □□□ | VXR | □□□□□ | □ | □□□ | SN | DXL |
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Terminal Code | Case Size |

◆Option

| | Code |
|--------------------------|-------|
| PET Sleeve without plate | EFC |
| PVC Sleeve without plate | OOE |
| PVC Sleeve with plate | Blank |

◆DIMENSIONS

(mm)



◆ STANDARD SIZE

| Cap (μ F) | WV ϕ D | 160 | | | | 180 | | | |
|-------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 |
| 220 | | | | | | 22 x 25; 1.00 | | | |
| 270 | | 22 x 25; 1.10 | | | | 22 x 25; 1.10 | | | |
| 330 | | 22 x 25; 1.20 | | | | 22 x 30; 1.20 | 25 x 25; 1.20 | | |
| 390 | | 22 x 30; 1.30 | 25 x 25; 1.30 | | | 22 x 30; 1.30 | 25 x 25; 1.30 | | |
| 470 | | 22 x 35; 1.40 | 25 x 30; 1.40 | | | 22 x 35; 1.40 | 25 x 30; 1.40 | 30 x 25; 1.40 | |
| 560 | | 22 x 40; 1.50 | 25 x 30; 1.50 | 30 x 25; 1.50 | | 22 x 40; 1.50 | 25 x 35; 1.50 | 30 x 25; 1.50 | |
| 680 | | 22 x 45; 1.70 | 25 x 35; 1.70 | 30 x 30; 1.70 | | 22 x 45; 1.70 | 25 x 35; 1.70 | 30 x 30; 1.70 | |
| 820 | | 22 x 50; 2.00 | 25 x 40; 2.00 | 30 x 30; 2.00 | | | 25 x 40; 2.00 | 30 x 35; 2.00 | 35 x 30; 2.00 |
| 1000 | | | 25 x 45; 2.20 | 30 x 35; 2.20 | 35 x 30; 2.20 | | 25 x 50; 2.20 | 30 x 35; 2.20 | 35 x 30; 2.20 |
| 1200 | | | 25 x 50; 2.30 | 30 x 40; 2.30 | 35 x 35; 2.30 | | | 30 x 40; 2.30 | 35 x 35; 2.30 |
| 1500 | | | | 30 x 45; 2.50 | 35 x 35; 2.50 | | | 30 x 50; 2.50 | 35 x 40; 2.50 |
| 1800 | | | | 30 x 50; 2.70 | 35 x 40; 2.70 | | | | 35 x 45; 2.70 |
| 2200 | | | | | 35 x 45; 2.90 | | | | 35 x 50; 2.90 |

| Cap (μ F) | WV ϕ D | 200 | | | | 250 | | | |
|-------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 |
| 180 | | | | | | 22 x 25; 0.90 | 25 x 25; 0.90 | | |
| 220 | | 22 x 25; 1.00 | | | | 22 x 30; 1.00 | 25 x 25; 1.00 | | |
| 270 | | 22 x 30; 1.10 | 25 x 25; 1.10 | | | 22 x 35; 1.10 | 25 x 30; 1.10 | 30 x 25; 1.10 | |
| 330 | | 22 x 30; 1.20 | 25 x 25; 1.20 | | | 22 x 40; 1.20 | 25 x 30; 1.20 | 30 x 25; 1.20 | |
| 390 | | 22 x 35; 1.30 | 25 x 30; 1.30 | 30 x 25; 1.30 | | 22 x 45; 1.30 | 25 x 35; 1.30 | 30 x 30; 1.30 | |
| 470 | | 22 x 40; 1.40 | 25 x 35; 1.40 | 30 x 25; 1.40 | | 22 x 50; 1.40 | 25 x 40; 1.40 | 30 x 30; 1.40 | 35 x 30; 1.40 |
| 560 | | 22 x 45; 1.50 | 25 x 35; 1.50 | 30 x 30; 1.50 | | | 25 x 45; 1.50 | 30 x 35; 1.50 | 35 x 30; 1.50 |
| 680 | | 22 x 50; 1.70 | 25 x 40; 1.70 | 30 x 30; 1.70 | | | 25 x 50; 1.70 | 30 x 40; 1.70 | 35 x 35; 1.70 |
| 820 | | | 25 x 45; 2.00 | 30 x 35; 2.00 | 35 x 30; 2.00 | | | 30 x 45; 2.00 | 35 x 35; 2.00 |
| 1000 | | | | 30 x 40; 2.20 | 35 x 35; 2.20 | | | 30 x 50; 2.20 | 35 x 40; 2.20 |
| 1200 | | | | 30 x 45; 2.30 | 35 x 40; 2.30 | | | | 35 x 45; 2.30 |
| 1500 | | | | | 35 x 50; 2.50 | | | | |

| Cap (μ F) | WV ϕ D | 315 | | | | 350 | | | |
|-------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 |
| 82 | | 22 x 25; 0.64 | | | | 22 x 25; 0.64 | | | |
| 100 | | 22 x 30; 0.69 | | | | 22 x 30; 0.69 | 25 x 25; 0.69 | | |
| 120 | | 22 x 30; 0.75 | 25 x 25; 0.75 | | | 22 x 35; 0.75 | 25 x 30; 0.75 | | |
| 150 | | 22 x 35; 0.82 | 25 x 30; 0.82 | 30 x 25; 0.82 | | 22 x 40; 0.82 | 25 x 30; 0.82 | 30 x 25; 0.82 | |
| 180 | | 22 x 40; 0.90 | 25 x 30; 0.90 | 30 x 25; 0.90 | | 22 x 45; 0.90 | 25 x 35; 0.90 | 30 x 30; 0.90 | |
| 220 | | 22 x 45; 1.00 | 25 x 35; 1.00 | 30 x 30; 1.00 | | 22 x 50; 1.00 | 25 x 40; 1.00 | 30 x 30; 1.00 | |
| 270 | | | 25 x 40; 1.10 | 30 x 35; 1.10 | 35 x 30; 1.10 | | 25 x 45; 1.10 | 30 x 35; 1.10 | 35 x 30; 1.10 |
| 330 | | | 25 x 50; 1.20 | 30 x 40; 1.20 | 35 x 30; 1.20 | | | 30 x 40; 1.20 | 35 x 35; 1.20 |
| 390 | | | | 30 x 40; 1.30 | 35 x 35; 1.30 | | | 30 x 45; 1.30 | 35 x 35; 1.30 |
| 470 | | | | 30 x 45; 1.40 | 35 x 40; 1.40 | | | 30 x 50; 1.40 | 35 x 40; 1.40 |
| 560 | | | | | 35 x 45; 1.50 | | | | 35 x 50; 1.50 |
| 680 | | | | | 35 x 50; 1.70 | | | | |

| Cap (μ F) | WV ϕ D | 400 | | | | 450 | | | |
|-------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 | ϕ 22 | ϕ 25 | ϕ 30 | ϕ 35 |
| 39 | | | | | | 22 x 25; 0.37 | | | |
| 47 | | | | | | 22 x 30; 0.40 | | | |
| 56 | | 22 x 25; 0.51 | | | | 22 x 35; 0.47 | 25 x 25; 0.47 | | |
| 68 | | 22 x 30; 0.56 | 25 x 25; 0.56 | | | 22 x 40; 0.53 | 25 x 30; 0.53 | | |
| 82 | | 22 x 30; 0.64 | 25 x 25; 0.64 | | | 22 x 45; 0.56 | 25 x 35; 0.56 | 30 x 25; 0.56 | |
| 100 | | 22 x 35; 0.69 | 25 x 30; 0.69 | | | 22 x 50; 0.64 | 25 x 40; 0.64 | 30 x 30; 0.64 | |
| 120 | | 22 x 40; 0.75 | 25 x 30; 0.75 | 30 x 25; 0.75 | | | 25 x 45; 0.72 | 30 x 30; 0.72 | |
| 150 | | 22 x 45; 0.82 | 25 x 35; 0.82 | 30 x 30; 0.82 | | | 25 x 50; 0.79 | 30 x 40; 0.79 | 35 x 30; 0.79 |
| 180 | | 22 x 50; 0.90 | 25 x 40; 0.90 | 30 x 30; 0.90 | 35 x 25; 0.90 | | | 30 x 45; 0.87 | 35 x 35; 0.87 |
| 220 | | | 25 x 45; 1.00 | 30 x 35; 1.00 | 35 x 30; 1.00 | | | 30 x 50; 1.00 | 35 x 40; 1.00 |
| 270 | | | | 30 x 40; 1.10 | 35 x 35; 1.10 | | | | 35 x 45; 1.19 |
| 330 | | | | 30 x 45; 1.20 | 35 x 40; 1.20 | | | | 35 x 50; 1.38 |
| 390 | | | | | 35 x 45; 1.30 | | | | |
| 470 | | | | | 35 x 50; 1.40 | | | | |

 Case Size ϕ DXL(mm) ↑

↑ Ripple Current (A r.m.s./120Hz, 105°C)