

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) $I = (\mu A)$ Leakage Current $V = (V)$ Rated Voltage $C = (\mu F)$ Rated Capacitance | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <tr> <td>(V) Rated Voltage</td> <td>160~250</td> <td>315~450</td> <td>(20°C,120Hz)</td> </tr> <tr> <td>tanδ</td> <td>0.15</td> <td>0.20</td> <td></td> </tr> </table> | (V) Rated Voltage | 160~250 | 315~450 | (20°C,120Hz) | tanδ | 0.15 | 0.20 | |
| (V) Rated Voltage | 160~250 | 315~450 | (20°C,120Hz) | | | | | | |
| tanδ | 0.15 | 0.20 | | | | | | | |
| Impedance Ratio(MAX) | <table border="1"> <tr> <td>(V) Rated Voltage</td> <td>160~250</td> <td>315~450</td> <td>(120Hz)</td> </tr> <tr> <td>$Z(-25°C)/Z(20°C)$</td> <td>3</td> <td>8</td> <td></td> </tr> </table> | (V) Rated Voltage | 160~250 | 315~450 | (120Hz) | $Z(-25°C)/Z(20°C)$ | 3 | 8 | |
| (V) Rated Voltage | 160~250 | 315~450 | (120Hz) | | | | | | |
| $Z(-25°C)/Z(20°C)$ | 3 | 8 | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 7000hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table> | 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. | | |
| 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

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

◆ PART NUMBER

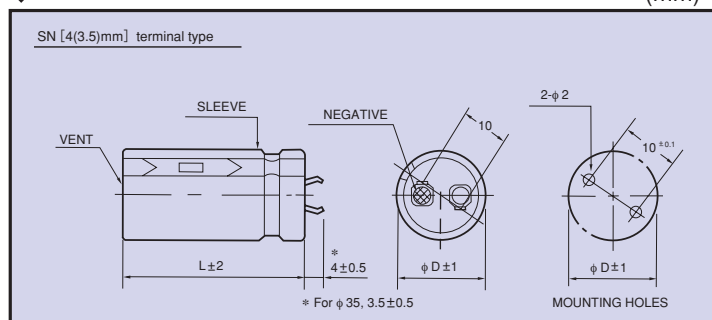
| | | | | | | |
|---------------|--------|-------------------|-----------------------|--------|---------------|-----------|
| □□□ | VXR | □□□□□ | □ | □□□ | SN | D×L |
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Terminal Code | Case Size |

◆ Option

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

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

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

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

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

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

Case Size φ D×L(mm) ↑

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