

VXR SERIES

105°C 7000 hours, Snap-in Terminal Type.

◆FEATURES

- Load Life : 105°C 7000 hours.
- 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 $C=(\mu F)$ Rated Capacitance $V=(V)$ Rated Voltage | | | | | | | | | | |
| (tanδ) Dissipation Factor(MAX) | <table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>160~250</th> <th>315~450</th> <th>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.15</td> <td>0.20</td> <td></td> </tr> </tbody> </table> | | | Rated Voltage | 160~250 | 315~450 | (20°C, 120Hz) | tanδ | 0.15 | 0.20 | |
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| tanδ | 0.15 | 0.20 | | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 7000 hours at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <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> </tbody> </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. | | | | | | | | | | |
| Low Temperature Stability Impedance Ration(MAX) | <table border="1"> <thead> <tr> <th>Rated Voltage</th> <th>160~250</th> <th>315~450</th> <th>(120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>8</td> <td></td> </tr> </tbody> </table> | | | Rated Voltage | 160~250 | 315~450 | (120Hz) | Z(-25°C)/Z(20°C) | 3 | 8 | |
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| Z(-25°C)/Z(20°C) | 3 | 8 | | | | | | | | | |

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency Coefficient

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

◆OPTION

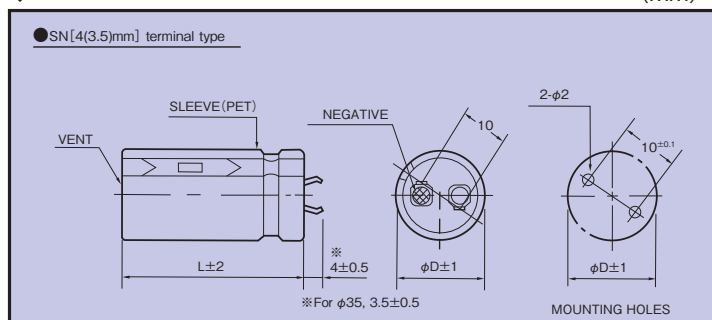
| | Code |
|--------------------------|------|
| PET Sleeve without plate | EFC |

◆PART NUMBER

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

◆DIMENSIONS

(mm)



◆STANDARD SIZE

| Cap(μF) | WV φD | 160 | | | | 180 | | | |
|---------|----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | φ22 | φ25 | φ30 | φ35 | φ22 | φ25 | φ30 | φ35 |
| 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 φD | 200 | | | | 250 | | | |
|---------|----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | φ22 | φ25 | φ30 | φ35 | φ22 | φ25 | φ30 | φ35 |
| 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 φD | 315 | | | | 350 | | | |
|---------|----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | φ22 | φ25 | φ30 | φ35 | φ22 | φ25 | φ30 | φ35 |
| 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 φD | 400 | | | | 450 | | | |
|---------|----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | φ22 | φ25 | φ30 | φ35 | φ22 | φ25 | φ30 | φ35 |
| 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 φD×L(mm)

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