

KXW SERIES
◆ FEATURES

- Load Life : 105°C 2000 hours.
- Body diameter of φ 10mm to φ 18mm with high ripple current capability.
- This series is one class smaller than the current AXW series.
- For switching adapter.
- RoHS compliance.


◆ SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | |
|-----------------------------------|---|--------------------|-----------------------------------|--------------------|--|------------------|------------------------------------|------|------|------|--|
| Category Temperature Range | -25~+105°C | | | | | | | | | | |
| Rated Voltage Range | 200 · 400 · 420 · 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) | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <tr> <td>Rated Voltage (V)</td> <td>200</td> <td>400</td> <td>420~450</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tanδ</td> <td>0.12</td> <td>0.15</td> <td>0.20</td> <td></td> </tr> </table> | Rated Voltage (V) | 200 | 400 | 420~450 | (20°C, 120Hz) | tanδ | 0.12 | 0.15 | 0.20 | |
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| tanδ | 0.12 | 0.15 | 0.20 | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 2000hrs 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. | | | | |
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| Dissipation Factor | Not more than 200% of the specified value. | | | | | | | | | | |
| Leakage Current | Not more than the specified value. | | | | | | | | | | |
| Impedance Ratio(MAX) | <table border="1"> <tr> <td>Rated Voltage(V)</td> <td>200</td> <td>400~450</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>8</td> <td></td> </tr> </table> | Rated Voltage(V) | 200 | 400~450 | (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

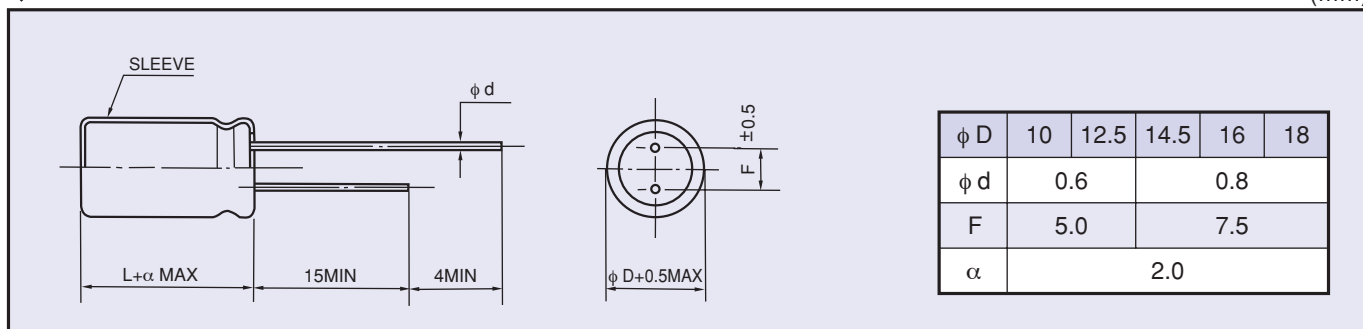
| Frequency(Hz) | 60(50) | 120 | 500 | 1k | 10k≤ |
|---------------|--------|-----|------|------|------|
| Coefficient | | | | | |
| 200WV | 0.8 | 1.0 | 1.20 | 1.30 | 1.40 |
| 400~450WV | 0.8 | 1.0 | 1.25 | 1.40 | 1.50 |

◆ PART NUMBER

| | | | | | | |
|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Rated Voltage | KXW Series | Rated Capacitance | Capacitance Tolerance | Option | Lead Forming | D×L Case Size |

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE, RATED RIPPLE CURRENT

| Cap(μF) | WV ϕD | 200 | | | | | 400 | | | | |
|----------------|----------------|----------------|----------------|--------------|--------------|-----------|--------------|----------------|----------------|--------------|--------------|
| | | $\phi 10$ | $\phi 12.5$ | $\phi 14.5$ | $\phi 16$ | $\phi 18$ | $\phi 10$ | $\phi 12.5$ | $\phi 14.5$ | $\phi 16$ | $\phi 18$ |
| 27 | | | | | | | 10x30 : 0.24 | | | | |
| 33 | | | | | | | 10x35 : 0.28 | | | | |
| 39 | | | | | | | 10x40 : 0.32 | | | | |
| 47 | | | | | | | | 12.5x30 : 0.37 | | | |
| 56 | | | | | | | | 12.5x35 : 0.42 | | | |
| 68 | | | | | | | | 12.5x40 : 0.48 | 14.5x30 : 0.48 | | |
| 82 | 10x30 : 0.40 | | | | | | | | 14.5x35 : 0.52 | | |
| 100 | 10x35 : 0.46 | | | | | | | | 14.5x40 : 0.58 | 16x30 : 0.58 | |
| 120 | 10x40 : 0.53 | | | | | | | | | 16x35 : 0.67 | 18x30 : 0.67 |
| 150 | | 12.5x30 : 0.62 | | | | | | | | 16x40 : 0.77 | 18x35 : 0.77 |
| 180 | | 12.5x35 : 0.70 | | | | | | | | | 18x40 : 0.88 |
| 220 | | 12.5x40 : 0.80 | 14.5x30 : 0.80 | | | | | | | | 18x45 : 1.00 |
| 270 | | | 14.5x35 : 0.87 | 16x30 : 0.87 | | | | | | | |
| 330 | | | | 16x35 : 1.01 | 18x30 : 1.01 | | | | | | |
| 390 | | | | 16x40 : 1.13 | 18x35 : 1.13 | | | | | | |
| 470 | | | | | 18x40 : 1.27 | | | | | | |
| 560 | | | | | 18x45 : 1.39 | | | | | | |

| Cap(μF) | WV ϕD | 420 | | | | | 450 | | | | |
|----------------|----------------|----------------|----------------|--------------|--------------|-----------|--------------|----------------|----------------|--------------|--------------|
| | | $\phi 10$ | $\phi 12.5$ | $\phi 14.5$ | $\phi 16$ | $\phi 18$ | $\phi 10$ | $\phi 12.5$ | $\phi 14.5$ | $\phi 16$ | $\phi 18$ |
| 18 | | | | | | | 10x30 : 0.18 | | | | |
| 22 | 10x30 : 0.20 | | | | | | 10x35 : 0.21 | | | | |
| 27 | 10x35 : 0.23 | | | | | | 10x40 : 0.25 | | | | |
| 33 | 10x40 : 0.27 | | | | | | | 12.5x30 : 0.28 | | | |
| 39 | | 12.5x30 : 0.31 | | | | | | 12.5x35 : 0.32 | | | |
| 47 | | 12.5x35 : 0.36 | | | | | | 12.5x40 : 0.38 | 14.5x30 : 0.38 | | |
| 56 | | 12.5x40 : 0.43 | 14.5x30 : 0.43 | | | | | | 14.5x35 : 0.44 | 16x30 : 0.44 | |
| 68 | | | 14.5x35 : 0.51 | 16x30 : 0.51 | | | | | 14.5x40 : 0.49 | 16x35 : 0.49 | |
| 82 | | | 14.5x40 : 0.57 | 16x35 : 0.57 | | | | | | 16x40 : 0.55 | 18x30 : 0.55 |
| 100 | | | | 16x40 : 0.61 | 18x30 : 0.61 | | | | | | 18x35 : 0.65 |
| 120 | | | | | 18x35 : 0.66 | | | | | | 18x40 : 0.74 |
| 150 | | | | | 18x40 : 0.71 | | | | | | 18x45 : 0.80 |

Please check with us about individual WV, Cap., size and dimensions.

Size $\phi D \times L$ (mm) ↑
Ripple Current (A r.m.s./120Hz, 105°C) ↑