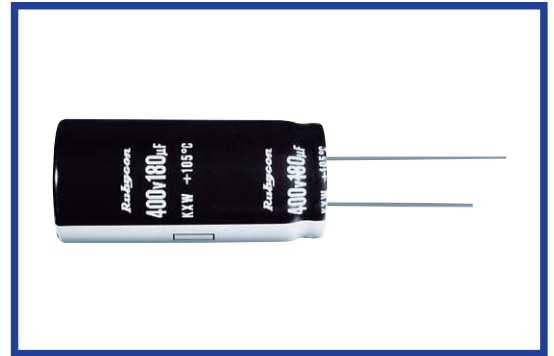


KXW SERIES
105°C Miniaturized
◆FEATURES

- Load Life : 105°C 2000 hours.
- Body diameter of φ10mm to φ18mm with high ripple current capability.
- 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(μ A) C =Capacitance(μ F) V =Rated Voltage(V) | | | | | | | | | | |
| Dissipation Factor(MAX) (tan δ) | <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>200</th> <th>400</th> <th>420~450</th> <th>(20°C,120Hz)</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.12</td> <td>0.15</td> <td>0.20</td> <td></td> </tr> </tbody> </table> | Rated Voltage (V) | 200 | 400 | 420~450 | (20°C,120Hz) | tan δ | 0.12 | 0.15 | 0.20 | |
| Rated Voltage (V) | 200 | 400 | 420~450 | (20°C,120Hz) | | | | | | | |
| tan δ | 0.12 | 0.15 | 0.20 | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 2000 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 Ratio(MAX) | <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>200</th> <th>400~450</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 (V) | 200 | 400~450 | (120Hz) | Z(-25°C)/Z(20°C) | 3 | 8 | | | |
| Rated Voltage (V) | 200 | 400~450 | (120Hz) | | | | | | | | |
| Z(-25°C)/Z(20°C) | 3 | 8 | | | | | | | | | |

◆MULTIPLIER FOR RIPPLE CURRENT

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

◆OPTION

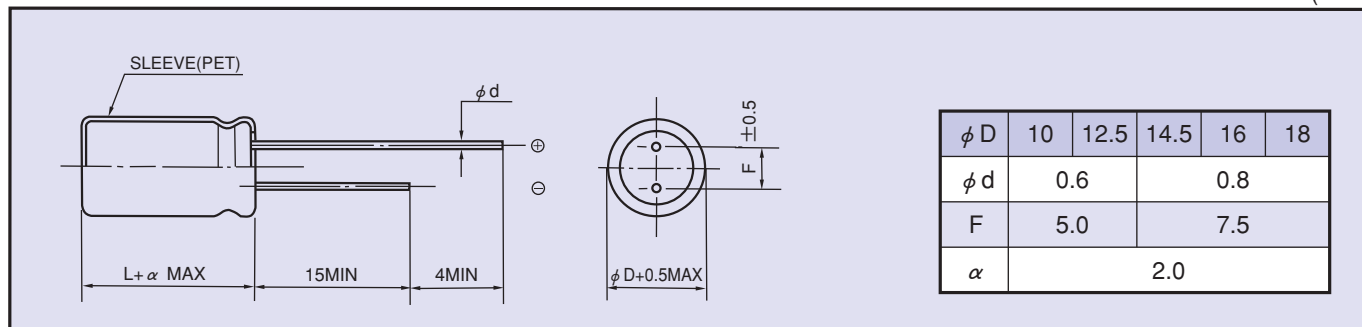
| | Code |
|------------|------|
| PET Sleeve | EFC |

◆PART NUMBER

| | | | | | | |
|-------------------------------|-------------------------------|---|-------------------------------|-------------------------------|---------------------|---|
| <u> </u> <u> </u> <u> </u> | <u> </u> <u> </u> <u> </u> | <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> | <u> </u> <u> </u> <u> </u> | <u> </u> <u> </u> <u> </u> | <u> </u> <u> </u> | <u> </u> <u> </u> <u> </u> <u> </u> |
| Rated Voltage | Series | Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

| Rated Voltage (V.DC) | Capacitance (μF) | Size $\phi D \times L$ (mm) | Rated Ripple Current (A r.m.s. 105°C, 120Hz) |
|----------------------|-------------------------|-----------------------------|--|
| 200 | 82 | 10×30 | 0.40 |
| | 100 | 10×35 | 0.46 |
| | 120 | 10×40 | 0.53 |
| | 150 | 12.5×30 | 0.62 |
| | 180 | 12.5×35 | 0.70 |
| | 220 | 12.5×40 | 0.80 |
| | 220 | 14.5×30 | 0.80 |
| | 270 | 14.5×35 | 0.87 |
| | 270 | 16×30 | 0.87 |
| | 330 | 16×35 | 1.01 |
| | 330 | 18×30 | 1.01 |
| | 390 | 16×40 | 1.13 |
| | 390 | 18×35 | 1.13 |
| | 470 | 18×40 | 1.27 |
| 560 | 18×45 | 1.39 | |
| 400 | 27 | 10×30 | 0.24 |
| | 33 | 10×35 | 0.28 |
| | 39 | 10×40 | 0.32 |
| | 47 | 12.5×30 | 0.37 |
| | 56 | 12.5×35 | 0.42 |
| | 68 | 12.5×40 | 0.48 |
| | 68 | 14.5×30 | 0.48 |
| | 82 | 14.5×35 | 0.52 |
| | 100 | 14.5×40 | 0.58 |
| | 100 | 16×30 | 0.58 |
| | 120 | 16×35 | 0.67 |
| | 120 | 18×30 | 0.67 |
| | 150 | 16×40 | 0.77 |
| | 150 | 18×35 | 0.77 |
| 180 | 18×40 | 0.88 | |
| 220 | 18×45 | 1.00 | |

| Rated Voltage (V.DC) | Capacitance (μF) | Size $\phi D \times L$ (mm) | Rated Ripple Current (A r.m.s. 105°C, 120Hz) |
|----------------------|-------------------------|-----------------------------|--|
| 420 | 22 | 10×30 | 0.20 |
| | 27 | 10×35 | 0.23 |
| | 33 | 10×40 | 0.27 |
| | 39 | 12.5×30 | 0.31 |
| | 47 | 12.5×35 | 0.36 |
| | 56 | 12.5×40 | 0.43 |
| | 56 | 14.5×30 | 0.43 |
| | 68 | 14.5×35 | 0.51 |
| | 68 | 16×30 | 0.51 |
| | 82 | 14.5×40 | 0.57 |
| | 82 | 16×35 | 0.57 |
| | 100 | 16×40 | 0.61 |
| | 100 | 18×30 | 0.61 |
| | 120 | 18×35 | 0.66 |
| 150 | 18×40 | 0.71 | |
| 450 | 18 | 10×30 | 0.18 |
| | 22 | 10×35 | 0.21 |
| | 27 | 10×40 | 0.25 |
| | 33 | 12.5×30 | 0.28 |
| | 39 | 12.5×35 | 0.32 |
| | 47 | 12.5×40 | 0.38 |
| | 47 | 14.5×30 | 0.38 |
| | 56 | 14.5×35 | 0.44 |
| | 56 | 16×30 | 0.44 |
| | 68 | 14.5×40 | 0.49 |
| | 68 | 16×35 | 0.49 |
| | 82 | 16×40 | 0.55 |
| | 82 | 18×30 | 0.55 |
| | 100 | 18×35 | 0.65 |
| 120 | 18×40 | 0.74 | |
| 150 | 18×45 | 0.80 | |