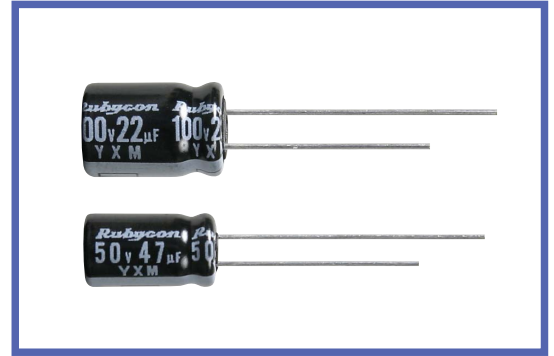


YXM SERIES
Load Life : 105°C 10,000 hours. Miniaturized.
◆ FEATURES

- Miniaturized Long Life.
- RoHS compliance.


◆ SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | |
|--|---|--------------------|------------------------------------|--------------------|--|-----------------|------------------------------------|----|-----|------------------|------|------|------|------|------|------|------|
| Category Temperature Range | - 25 ~ + 105°C | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 10 ~ 100V.DC | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ± 20%(20°C, 120Hz) | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | I=0.01CV or 3 µA whichever is greater. (After 2 minutes) I=Leakage Current(µA) C=Rated Capacitance(µ F) V=Rated Voltage(V) | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tan δ) | <table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.45</td> <td>0.35</td> <td>0.30</td> <td>0.22</td> <td>0.19</td> <td>0.17</td> <td>0.15</td> </tr> </tbody> </table> (20°C, 120Hz) | Rated Voltage (V) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | tan δ | 0.45 | 0.35 | 0.30 | 0.22 | 0.19 | 0.17 | 0.15 |
| Rated Voltage (V) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | |
| tan δ | 0.45 | 0.35 | 0.30 | 0.22 | 0.19 | 0.17 | 0.15 | | | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 10000 hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ± 25% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% 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 ± 25% of the initial value. | Dissipation Factor | Not more than 300% of the specified value. | Leakage Current | Not more than the specified value. | | | | | | | | | | |
| Capacitance Change | Within ± 25% of the initial value. | | | | | | | | | | | | | | | | |
| Dissipation Factor | Not more than 300% 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>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> (120Hz) | Rated Voltage (V) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | Z(-25°C)/Z(20°C) | 8 | 6 | 4 | 4 | 3 | 3 | 3 |
| Rated Voltage (V) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | |
| Z(-25°C)/Z(20°C) | 8 | 6 | 4 | 4 | 3 | 3 | 3 | | | | | | | | | | |

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

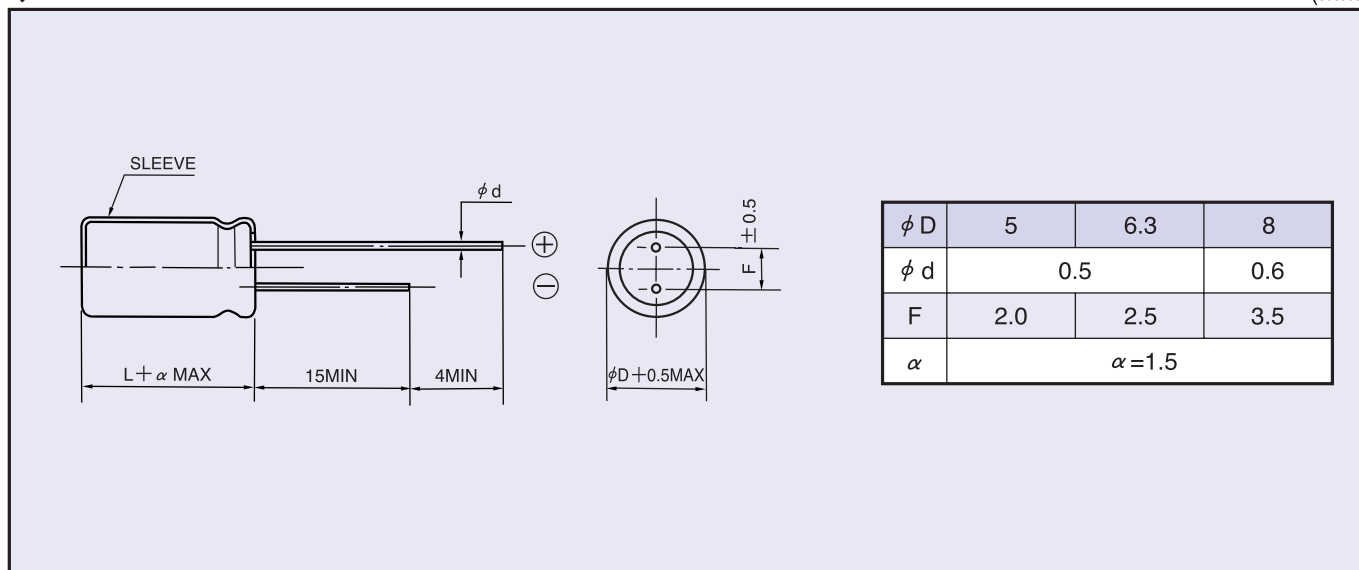
| Frequency (Hz) | | 120 | 1k | 10k | 100k ≤ |
|----------------|---------------|------|------|------|--------|
| Coefficient | 0.47 ~ 10 µ F | 0.42 | 0.60 | 0.80 | 1.00 |
| | 22 ~ 33 µ F | 0.55 | 0.75 | 0.90 | 1.00 |
| | 47 ~ 330 µ F | 0.70 | 0.85 | 0.95 | 1.00 |

◆ PART NUMBER

| | | | | | | |
|---------------|--------|-------------------|-----------------------|--------|--------------|-----------|
| □□□ | YXM | □□□□□ | □ | □□□ | □□ | DXL |
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

| Rated voltage 10V(1A) | | |
|---------------------------------|-----------------------------|--|
| Nominal capacitance (μF) | Size $\phi D \times L$ (mm) | Rated ripple current (mA r.m.s./105°C, 100kHz) |
| 100 | 5 × 11 | 130 |
| 220 | 6.3 × 11 | 210 |
| 330 | 8 × 11.5 | 330 |

| Rated voltage 16V(1C) | | |
|---------------------------------|-----------------------------|--|
| Nominal capacitance (μF) | Size $\phi D \times L$ (mm) | Rated ripple current (mA r.m.s./105°C, 100kHz) |
| 47 | 5 × 11 | 130 |
| 100 | 6.3 × 11 | 210 |
| 220 | 8 × 11.5 | 330 |

| Rated voltage 25V(1E) | | |
|---------------------------------|-----------------------------|--|
| Nominal capacitance (μF) | Size $\phi D \times L$ (mm) | Rated ripple current (mA r.m.s./105°C, 100kHz) |
| 33 | 5 × 11 | 130 |
| 47 | 5 × 11 | 130 |
| 100 | 6.3 × 11 | 210 |

| Rated voltage 35V(1V) | | |
|---------------------------------|-----------------------------|--|
| Nominal capacitance (μF) | Size $\phi D \times L$ (mm) | Rated ripple current (mA r.m.s./105°C, 100kHz) |
| 33 | 5 × 11 | 130 |
| 47 | 6.3 × 11 | 210 |
| 100 | 8 × 11.5 | 330 |

| Rated voltage 50V(1H) | | |
|-----------------------------------|---------------------------------|--|
| Nominal capacitance (μ F) | Size ϕ D \times L(mm) | Rated ripple current (mA r.m.s./105°C,100kHz) |
| 0.47 | 5 \times 11 | 12 |
| 1 | 5 \times 11 | 25 |
| 2.2 | 5 \times 11 | 35 |
| 3.3 | 5 \times 11 | 70 |
| 4.7 | 5 \times 11 | 80 |
| 10 | 5 \times 11 | 90 |
| 22 | 5 \times 11 | 110 |
| 33 | 6.3 \times 11 | 190 |
| 47 | 6.3 \times 11 | 190 |
| 100 | 8 \times 11.5 | 270 |

| Rated voltage 63V(1J) | | |
|-----------------------------------|---------------------------------|--|
| Nominal capacitance (μ F) | Size ϕ D \times L(mm) | Rated ripple current (mA r.m.s./105°C,100kHz) |
| 10 | 5 \times 11 | 80 |
| 22 | 6.3 \times 11 | 170 |
| 33 | 6.3 \times 11 | 170 |
| 47 | 8 \times 11.5 | 240 |

| Rated voltage 100V(2A) | | |
|-----------------------------------|---------------------------------|--|
| Nominal capacitance (μ F) | Size ϕ D \times L(mm) | Rated ripple current (mA r.m.s./105°C,100kHz) |
| 0.47 | 5 \times 11 | 20 |
| 1 | 5 \times 11 | 40 |
| 2.2 | 5 \times 11 | 50 |
| 3.3 | 5 \times 11 | 60 |
| 4.7 | 5 \times 11 | 70 |
| 10 | 6.3 \times 11 | 150 |
| 22 | 8 \times 11.5 | 230 |