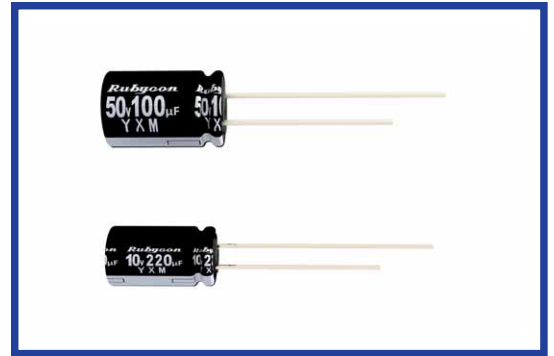


YXM SERIES
Load Life : 105°C 10000 hours, Miniaturized

•Temperature Range : -40°C~+105°C


◆SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------------------|-----------------------------------|--------------------|--|-----------------|------------------------------------|----|-----|---------------|------|------|------|------|------|------|------|------------------|--|--|--|--|--|--|--|
| Category Temperature Range | -40~+105°C | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 10~100Vdc | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | I=0.01CV or 3µA whichever is greater.(After 2 minutes) I=Leakage Current(µA) C=Capacitance(µF) V=Rated Voltage(Vdc) | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</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>(20°C, 120Hz)</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> | Rated Voltage (Vdc) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | (20°C, 120Hz) | 0.45 | 0.35 | 0.30 | 0.22 | 0.19 | 0.17 | 0.15 | | | | | | | | |
| Rated Voltage (Vdc) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | |
| (20°C, 120Hz) | 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 hours 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 (Vdc)</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>(120Hz)</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Rated Voltage (Vdc) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | (120Hz) | 8 | 6 | 4 | 4 | 3 | 3 | 3 | Z(-25°C)/Z(20°C) | | | | | | | |
| Rated Voltage (Vdc) | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | | | | | | | | |
| (120Hz) | 8 | 6 | 4 | 4 | 3 | 3 | 3 | | | | | | | | | | | | | | | | | | |
| Z(-25°C)/Z(20°C) | | | | | | | | | | | | | | | | | | | | | | | | | |

◆MULTIPLIER FOR RIPPLE CURRENT

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

◆OPTION

| | Code |
|-------------------------|-------|
| PET Sleeve (-40~+105°C) | EFR * |

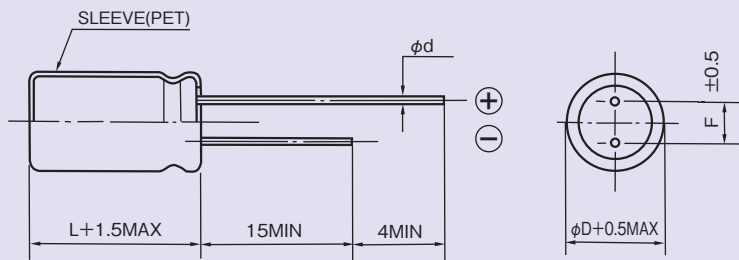
※PET Sleeve -25°C~+105°C(EFC) is also available, please consult our sales offices.

◆PART NUMBER

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

◆ **DIMENSIONS**

(mm)



| | | | |
|----------|-----|-----|-----|
| ϕD | 5 | 6.3 | 8 |
| ϕd | 0.5 | | 0.6 |
| F | 2.0 | 2.5 | 3.5 |

◆ **STANDARD SIZE**

| Rated Voltage (Vdc) | Capacitance (μF) | Size $\phi D \times L$ (mm) | Rated Ripple Current (mA r.m.s. 105°C, 100kHz) |
|---------------------|-------------------------|-----------------------------|--|
| 10 | 100 | 5×11 | 130 |
| | 220 | 6.3×11 | 210 |
| | 330 | 8×11.5 | 330 |
| 16 | 47 | 5×11 | 130 |
| | 100 | 6.3×11 | 210 |
| | 220 | 8×11.5 | 330 |
| 25 | 33 | 5×11 | 130 |
| | 47 | 5×11 | 130 |
| | 100 | 6.3×11 | 210 |
| 35 | 33 | 5×11 | 130 |
| | 47 | 6.3×11 | 210 |
| | 100 | 8×11.5 | 330 |

| Rated Voltage (Vdc) | Capacitance (μF) | Size $\phi D \times L$ (mm) | Rated Ripple Current (mA r.m.s. 105°C, 100kHz) |
|---------------------|-------------------------|-----------------------------|--|
| 50 | 1 | 5×11 | 25 |
| | 2.2 | 5×11 | 35 |
| | 3.3 | 5×11 | 70 |
| | 4.7 | 5×11 | 80 |
| | 10 | 5×11 | 90 |
| | 22 | 5×11 | 135 |
| | 22 | 6.3×11 | 230 |
| | 33 | 6.3×11 | 190 |
| | 47 | 6.3×11 | 190 |
| | 100 | 8×11.5 | 270 |
| 63 | 10 | 5×11 | 80 |
| | 22 | 6.3×11 | 170 |
| | 33 | 6.3×11 | 170 |
| | 47 | 8×11.5 | 240 |
| 100 | 1 | 5×11 | 40 |
| | 2.2 | 5×11 | 50 |
| | 3.3 | 5×11 | 60 |
| | 4.7 | 5×11 | 70 |
| | 10 | 6.3×11 | 150 |
| | 22 | 8×11.5 | 230 |

※

※Endurance:13000hours at 105°C