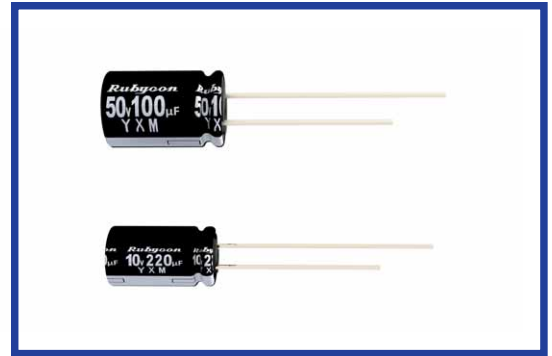


**YXM SERIES**
**Load Life : 105°C 10000 hours, Miniaturized**

•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)<br>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></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <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>                                   | Rated Voltage (Vdc) | 10                                | 16                 | 25   | 35              | 50                                 | 63 | 100 | (120Hz)       |      |      |      |      |      |      |      | Z(-25°C)/Z(20°C) | 8 | 6 | 4 | 4 | 3 | 3 | 3 |
| Rated Voltage (Vdc)                            | 10   | 16                  | 25                                | 35                 | 50   | 63              | 100                                |    |     |               |      |      |      |      |      |      |      |                  |   |   |   |   |   |   |   |
| (120Hz)  |  |                     |                                   |                    |  |                 |                                    |    |     |               |      |      |      |      |      |      |      |                  |   |   |   |   |   |   |   |
| Z(-25°C)/Z(20°C)                               | 8  | 6                   | 4                                 | 4                  | 3  | 3               | 3                                  |    |     |               |      |      |      |      |      |      |      |                  |   |   |   |   |   |   |   |

**◆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 * |

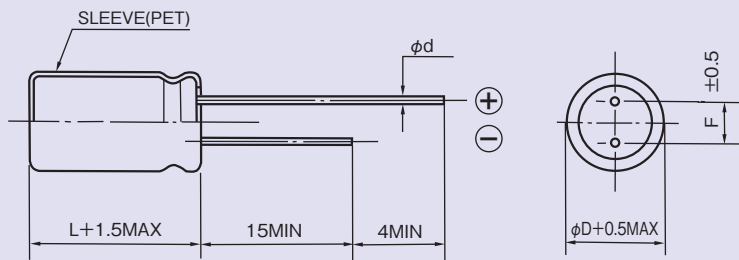
※PET Sleeve -25°C~+105°C(EFC) is also available, please consult our sales offices.

**◆PART NUMBER**

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

◆ **DIMENSIONS**

(mm)



|          |     |     |     |
|----------|-----|-----|-----|
| $\phi D$ | 5   | 6.3 | 8   |
| $\phi d$ | 0.5 |     | 0.6 |
| F        | 2.0 | 2.5 | 3.5 |

◆ **STANDARD SIZE**

| Rated Voltage (Vdc) | Capacitance ( $\mu F$ ) | 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 ( $\mu F$ ) | 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

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