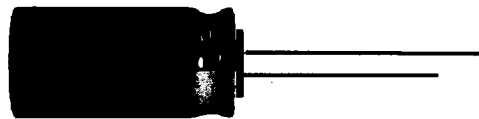


YXB シリーズ
SERIES

105°C小形化低インピーダンス品
105°C Miniaturized. Low impedance.



◆規格表 SPECIFICATIONS

| 項目 Item | 特 性 Characteristics | | | | | | | | | | | | | | | | | | |
|--|--|-------------------------------|---|-------------------|----------------------|------------------------------|--|------|------|-------------------------|---|-------|------|------|------|---------|------|------|------|
| 使用温度範囲 Operating Temperature Range | -55~+105°C | | | | | | | | | | | | | | | | | | |
| 定格電圧範囲 Rated Voltage Range | 6.3~100V.DC | | | | | | | | | | | | | | | | | | |
| 静電容量許容差 Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | | | |
| 漏れ電流 Leakage Current | I=0.01CV又は3μAのいずれか大なる値以下 (定格電圧印加2分後) I=0.01CV or 3μA whichever is greater. (After 2 minutes' application of rated voltage)MAX I=漏れ電流(μA) C=公称静電容量(μF) V=定格電圧(V) Leakage Current Nominal Capacitance Rated Voltage | | | | | | | | | | | | | | | | | | |
| 損失角の正接 (tanδ) Dissipation Factor | <table border="1"> <thead> <tr> <th>定格電圧(V) Rated Voltage</th> <th>6.3</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>tanδ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </tbody> </table> <p style="text-align: right;">MAX (20°C, 120Hz)</p> <p>1000μFを越えるものは1000μF増す毎に上表の値に0.02を加えた値とする。 When nominal capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.</p> | 定格電圧(V) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | tanδ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 |
| 定格電圧(V) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | | | | | | | | | | | |
| tanδ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | | | | | | | | | | | |
| 高温負荷特性 Load Life | <p>105°C, 右表の時間定格電圧印加後、 After life test at conditions stated in the table below, the capacitors shall meet the following requirement.</p> <table border="1"> <thead> <tr> <th>静電容量変化率 Capacitance Change</th> <th>初期値の±25%以内 Within ±25% of the initial value.</th> <th>ケース外径 Case Dia</th> <th>時間(hrs) Life Time</th> </tr> </thead> <tbody> <tr> <td>損失角の正接 Dissipation Factor</td> <td>規格値の200%以下 Not more than 200% of the specified value.</td> <td>φD≤8</td> <td>2000</td> </tr> <tr> <td>漏れ電流 Leakage Current</td> <td>規格値以下 Not more than the specified value.</td> <td>φD=10</td> <td>3000</td> </tr> <tr> <td></td> <td></td> <td>φD≥12.5</td> <td>5000</td> </tr> </tbody> </table> | 静電容量変化率 Capacitance Change | 初期値の±25%以内 Within ±25% of the initial value. | ケース外径 Case Dia | 時間(hrs) Life Time | 損失角の正接 Dissipation Factor | 規格値の200%以下 Not more than 200% of the specified value. | φD≤8 | 2000 | 漏れ電流 Leakage Current | 規格値以下 Not more than the specified value. | φD=10 | 3000 | | | φD≥12.5 | 5000 | | |
| 静電容量変化率 Capacitance Change | 初期値の±25%以内 Within ±25% of the initial value. | ケース外径 Case Dia | 時間(hrs) Life Time | | | | | | | | | | | | | | | | |
| 損失角の正接 Dissipation Factor | 規格値の200%以下 Not more than 200% of the specified value. | φD≤8 | 2000 | | | | | | | | | | | | | | | | |
| 漏れ電流 Leakage Current | 規格値以下 Not more than the specified value. | φD=10 | 3000 | | | | | | | | | | | | | | | | |
| | | φD≥12.5 | 5000 | | | | | | | | | | | | | | | | |
| 低温特性 Low Temperature Stability (インピーダンス比) Impedance Ratio | Z(-55°C)/Z(20°C) ≤3 (120Hz) | | | | | | | | | | | | | | | | | | |
| 準拠規格 Reference Standard | JIS C 5141 | | | | | | | | | | | | | | | | | | |

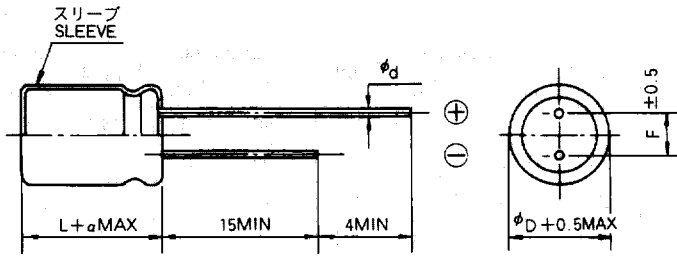
◆リップル電流補正係数 MULTIPLIER FOR RIPPLE CURRENT

周波数係数 Frequency coefficient

| Cap(μF) | Freq(Hz) | | | | |
|------------|----------|------|------|------|-------|
| | 60(50) | 120 | 1k | 10k | ≥100k |
| 0.47~4.7 | 0.35 | 0.42 | 0.60 | 0.80 | 1.00 |
| 10~33 | 0.45 | 0.55 | 0.75 | 0.90 | 1.00 |
| 47~330 | 0.60 | 0.70 | 0.85 | 0.95 | 1.00 |
| 470~1000 | 0.65 | 0.75 | 0.90 | 0.98 | 1.00 |
| 2200~15000 | 0.75 | 0.80 | 0.95 | 1.00 | 1.00 |

◆寸法図 DIMENSIONS

(mm)



| | | | | | | | |
|----------|-----|-----|-----|-----|------|-----|----|
| ϕD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
| ϕd | 0.5 | | 0.6 | | | 0.8 | |
| F | 2.0 | 2.5 | 3.5 | 5.0 | | 7.5 | |

$L \leq 16 : \alpha = 1.5$
 $L \geq 20 : \alpha = 2.0$

◆寸法一覧表 STANDARD SIZE.

Size $\phi D \times L$ (mm)

| 定格電圧 WV(V. DC) 公称静電 容量Cap(μ F) | 6.3 (0J) | 10 (1A) | 16 (1C) | 25 (1E) | 35 (1V) | 50 (1H) | 63 (1J) | 100 (2A) |
|--|-------------|------------|------------|------------|------------|------------|------------|-------------|
| 0.47 | | | | | | 5×11 | | 5×11 |
| 1 | | | | | | 5×11 | | 5×11 |
| 2.2 | | | | | | 5×11 | | 5×11 |
| 3.3 | | | | | | 5×11 | | 5×11 |
| 4.7 | | | | | | 5×11 | | 5×11 |
| 10 | | | | | | 5×11 | 5×11 | 6.3×11 |
| 22 | | | | | | 5×11 | 6.3×11 | 8×11.5 |
| 33 | | | | 5×11 | 5×11 | 6.3×11 | 6.3×11 | 10×12.5 |
| 47 | | | 5×11 | 5×11 | 6.3×11 | 6.3×11 | 8×11.5 | 10×16 |
| 100 | 5×11 | 5×11 | 6.3×11 | 6.3×11 | 8×11.5 | 8×11.5 | 10×12.5 | 12.5×20 |
| 220 | 6.3×11 | 6.3×11 | 8×11.5 | 8×11.5 | 10×12.5 | 10×16 | 10×20 | 16×25 |
| 330 | 6.3×11 | 8×11.5 | 8×11.5 | 10×12.5 | 10×16 | 10×20 | 12.5×20 | 16×25 |
| 470 | 8×11.5 | 8×11.5 | 10×12.5 | 10×16 | 10×20 | 12.5×20 | 12.5×25 | 16×31.5 |
| 1000 | 10×12.5 | 10×16 | 10×20 | 12.5×20 | 12.5×25 | 16×25 | 16×31.5 | |
| 2200 | 12.5×20 | 12.5×20 | 12.5×25 | 16×25 | 16×31.5 | 18×35.5 | | |
| 3300 | 12.5×20 | 12.5×25 | 16×25 | 16×31.5 | 18×35.5 | | | |
| 4700 | 16×25 | 16×25 | 16×31.5 | 18×35.5 | | | | |
| 6800 | 16×25 | 16×31.5 | 18×35.5 | | | | | |
| 10000 | 16×31.5 | 18×35.5 | | | | | | |
| 15000 | 18×35.5 | | | | | | | |

◆最大許容リプル電流,インピーダンス規格一覧表 MAXIMUM PERMISSIBLE RIPPLE CURRENT, IMPEDANCE
Ripple current (mA r. m. s. / 105°C, 100kHz), Impedance (ΩMAX/100kHz)

| 定格電圧 WV(DC) | 6.3(0J) | | | 10(1A) | | | 16(1C) | | | 25(1E) | | | 35(1V) | | |
|----------------|---------|-----------|-------|--------|-----------|-------|--------|-----------|-------|--------|-----------|-------|--------|-----------|-------|
| | Ripple | Impedance | | Ripple | Impedance | | Ripple | Impedance | | Ripple | Impedance | | Ripple | Impedance | |
| | | 20°C | -10°C | | 20°C | -10°C | | 20°C | -10°C | | 20°C | -10°C | | 20°C | -10°C |
| 33 | | | | | | | | | | 147 | 0.90 | 1.8 | 147 | 0.90 | 1.8 |
| 47 | | | | | | | 147 | 0.90 | 1.8 | 147 | 0.90 | 1.8 | 244 | 0.42 | 0.84 |
| 100 | 147 | 0.90 | 1.8 | 147 | 0.90 | 1.8 | 244 | 0.42 | 0.84 | 244 | 0.42 | 0.84 | 391 | 0.25 | 0.50 |
| 220 | 244 | 0.42 | 0.84 | 244 | 0.42 | 0.84 | 391 | 0.25 | 0.50 | 391 | 0.25 | 0.50 | 576 | 0.14 | 0.28 |
| 330 | 244 | 0.42 | 0.84 | 391 | 0.25 | 0.50 | 391 | 0.25 | 0.50 | 576 | 0.14 | 0.28 | 762 | 0.086 | 0.18 |
| 470 | 391 | 0.25 | 0.50 | 391 | 0.25 | 0.50 | 576 | 0.14 | 0.28 | 762 | 0.086 | 0.18 | 1009 | 0.056 | 0.12 |
| 1000 | 576 | 0.14 | 0.28 | 762 | 0.086 | 0.18 | 1009 | 0.056 | 0.12 | 1296 | 0.046 | 0.092 | 1646 | 0.034 | 0.068 |
| 2200 | 1296 | 0.046 | 0.092 | 1296 | 0.046 | 0.092 | 1646 | 0.034 | 0.068 | 1839 | 0.029 | 0.058 | 1994 | 0.029 | 0.058 |
| 3300 | 1296 | 0.046 | 0.092 | 1646 | 0.034 | 0.068 | 1839 | 0.029 | 0.058 | 1994 | 0.029 | 0.058 | 2193 | 0.029 | 0.058 |
| 4700 | 1839 | 0.029 | 0.058 | 1839 | 0.029 | 0.058 | 1994 | 0.029 | 0.058 | 2193 | 0.029 | 0.058 | | | |
| 6800 | 1839 | 0.029 | 0.058 | 1994 | 0.029 | 0.058 | 2193 | 0.029 | 0.058 | | | | | | |
| 10000 | 1994 | 0.029 | 0.058 | 2193 | 0.029 | 0.058 | | | | | | | | | |
| 15000 | 2193 | 0.029 | 0.058 | | | | | | | | | | | | |

| 定格電圧 WV(DC) | 50(1H) | | | 63(1J) | | | 100(2A) | | |
|----------------|--------|-----------|-------|--------|-----------|-------|---------|-----------|-------|
| | Ripple | Impedance | | Ripple | Impedance | | Ripple | Impedance | |
| | | 20°C | -10°C | | 20°C | -10°C | | 20°C | -10°C |
| 0.47 | 17 | 6.0 | 12.0 | | | | 15 | 9.0 | 27.0 |
| 1 | 29 | 4.0 | 8.0 | | | | 20 | 7.0 | 21.0 |
| 2.2 | 43 | 3.0 | 6.0 | | | | 30 | 6.0 | 18.0 |
| 3.3 | 53 | 2.8 | 5.6 | | | | 40 | 5.0 | 15.0 |
| 4.7 | 88 | 2.5 | 5.0 | | | | 65 | 4.5 | 13.0 |
| 10 | 100 | 2.0 | 4.0 | 87 | 2.5 | 6.2 | 138 | 2.2 | 6.6 |
| 22 | 120 | 1.35 | 2.7 | 138 | 1.2 | 3.0 | 160 | 1.1 | 3.3 |
| 33 | 180 | 0.74 | 1.4 | 138 | 1.2 | 3.0 | 230 | 0.76 | 2.2 |
| 47 | 180 | 0.74 | 1.4 | 210 | 0.65 | 1.6 | 290 | 0.53 | 1.5 |
| 100 | 270 | 0.42 | 0.84 | 300 | 0.45 | 1.1 | 430 | 0.37 | 1.1 |
| 220 | 473 | 0.21 | 0.42 | 520 | 0.21 | 0.52 | 900 | 0.12 | 0.36 |
| 330 | 605 | 0.15 | 0.30 | 660 | 0.16 | 0.40 | 900 | 0.12 | 0.36 |
| 470 | 748 | 0.12 | 0.24 | 750 | 0.14 | 0.35 | 1130 | 0.09 | 0.27 |
| 1000 | 1279 | 0.060 | 0.12 | 1390 | 0.060 | 0.15 | | | |
| 2200 | 2156 | 0.030 | 0.060 | | | | | | |