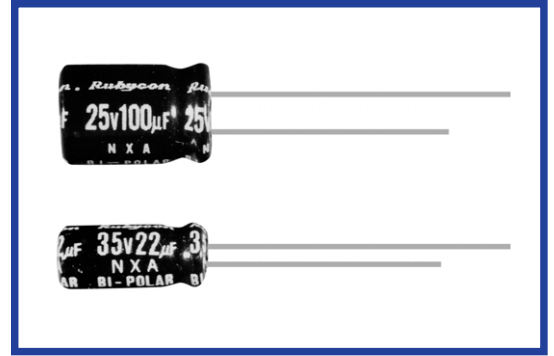


NXA シリーズ
SERIES

105°C 両極性小形化標準品
105°C Bi-polar Miniaturized

◆特長 / FEATURES

- ・RoHS指令対応品。
RoHS compliance.



◆規格表 / SPECIFICATIONS

| 項目 Items | 特性 Characteristics | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------------------------|---|------------------------------|--|-------------------------|---|----|---------------|------------------|------|------|------|------|------|------|--|------------------|---|---|---|---|---|---|--|
| カテゴリ温度範囲 Category Temperature Range | -55~+105°C | | | | | | | | | | | | | | | | | | | | | | | | |
| 定格電圧範囲 Rated Voltage Range | 6.3~50V.DC | | | | | | | | | | | | | | | | | | | | | | | | |
| 静電容量許容差 Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏れ電流 Leakage Current (MAX) | I=0.03CV又は3µAのいずれか大なる値以下 (定格電圧印加5分後) I=0.03CV or 3µA whichever is greater. (After 5 minutes application of rated voltage) I=漏れ電流(µA) Leakage Current C=静電容量(µF) Capacitance V=定格電圧(V) Rated Voltage | | | | | | | | | | | | | | | | | | | | | | | | |
| 損失角の正接 (tanδ) Dissipation Factor (MAX) | <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>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.25</td> <td>0.25</td> <td>0.20</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td></td> </tr> </tbody> </table> | 定格電圧(V) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | (20°C, 120Hz) | tanδ | 0.25 | 0.25 | 0.20 | 0.20 | 0.15 | 0.15 | | | | | | | | | |
| 定格電圧(V) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | (20°C, 120Hz) | | | | | | | | | | | | | | | | | | |
| tanδ | 0.25 | 0.25 | 0.20 | 0.20 | 0.15 | 0.15 | | | | | | | | | | | | | | | | | | | |
| 耐久性 Endurance | <p>105°C中で250時間毎に極性を反転させ1000時間定格電圧(リプル重畳)印加後、下記項目を満足すること。 After applying rated voltage with rated ripple current for 1000 hours at 105°C, (The polarity shall be reversed every 250hrs.), the capacitors shall meet the following requirements.</p> <table border="1"> <tbody> <tr> <td>静電容量変化率 Capacitance Change</td> <td>初期値の±25%以内 Within ±25% of the initial value.</td> </tr> <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> </tr> <tr> <td>漏れ電流 Leakage Current</td> <td>規格値以下 Not more than the specified value.</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. | 損失角の正接 Dissipation Factor | 規格値の200%以下 Not more than 200% of the specified value. | 漏れ電流 Leakage Current | 規格値以下 Not more than the specified value. | | | | | | | | | | | | | | | | | | |
| 静電容量変化率 Capacitance Change | 初期値の±25%以内 Within ±25% of the initial value. | | | | | | | | | | | | | | | | | | | | | | | | |
| 損失角の正接 Dissipation Factor | 規格値の200%以下 Not more than 200% of the specified value. | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏れ電流 Leakage Current | 規格値以下 Not more than the specified value. | | | | | | | | | | | | | | | | | | | | | | | | |
| 低温特性 Low Temperature Stability (インピーダンス比) Impedance Ratio (MAX) | <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>(120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td></td> </tr> </tbody> </table> | 定格電圧(V) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | (120Hz) | Z(-25°C)/Z(20°C) | 4 | 3 | 2 | 2 | 2 | 2 | | Z(-40°C)/Z(20°C) | 8 | 6 | 4 | 4 | 4 | 4 | |
| 定格電圧(V) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | (120Hz) | | | | | | | | | | | | | | | | | | |
| Z(-25°C)/Z(20°C) | 4 | 3 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 8 | 6 | 4 | 4 | 4 | 4 | | | | | | | | | | | | | | | | | | | |

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

周波数係数 Frequency coefficient

| 周波数 (Hz) Frequency | 60(50) | 120 | 500 | 1k | 10k≤ |
|-----------------------|--------|------|------|------|------|
| 1µF | 0.50 | 1.00 | 1.20 | 1.30 | 1.50 |
| 2.2~4.7µF | 0.65 | 1.00 | 1.20 | 1.30 | 1.50 |
| 10~47µF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| 100~1000µF | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 |

◆副記号 / OPTION

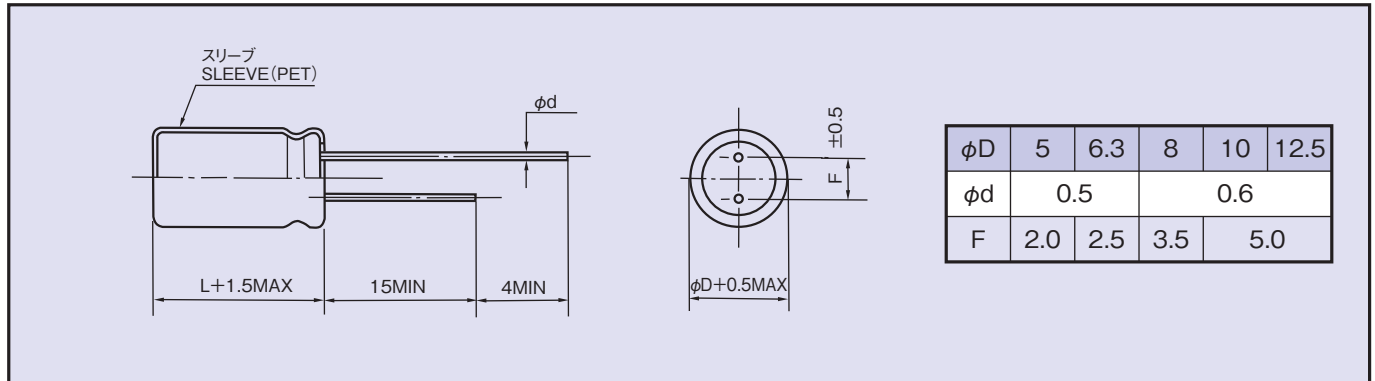
| | 記号 Code |
|--------------------|---------|
| PETスリーブ PET Sleeve | EFC |

◆呼称方法 / PART NUMBER

| | | | | | | |
|-----------------------|-----------------|---------------------|----------------------------------|---------------|-------------------------|---------------------|
| □□□ | NXA | □□□□□ | M | □□□ | □□ | DxL |
| 定格電圧 Rated Voltage | シリーズ名 Series | 静電容量 Capacitance | 静電容量許容差 Capacitance Tolerance | 副記号 Option | リード加工記号 Lead Forming | ケースサイズ Case Size |

◆寸法図 / DIMENSIONS

(mm)



◆標準品一覧表 / STANDARD SIZE

Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./105°C, 120Hz)

| 定格電圧 WV(V.DC) 静電容量 Cap(μF) | 6.3 (0J) | | 10 (1A) | | 16 (1C) | | 25 (1E) | |
|--|-------------|--------|------------|--------|------------|--------|------------|--------|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 33 | | | | | | | 5×11 | 49 |
| 47 | | | | | 5×11 | 54 | 6.3×11 | 68 |
| 100 | 5×11 | 63 | 6.3×11 | 68 | 6.3×11 | 84 | 8×11.5 | 111 |
| 220 | 6.3×11 | 68 | 8×11.5 | 135 | 8×11.5 | 137 | 10×12.5 | 182 |
| 330 | 8×11.5 | 135 | 8×11.5 | 147 | 10×12.5 | 202 | 10×16 | 247 |
| 470 | 8×11.5 | 161 | 10×12.5 | 212 | 10×16 | 262 | 10×20 | 333 |
| 1000 | 10×16 | 297 | 10×20 | 378 | 12.5×20 | 472 | | |

| 定格電圧 WV(V.DC) 静電容量 Cap(μF) | 35 (1V) | | 50 (1H) | |
|--|------------|--------|------------|--------|
| | Size | Ripple | Size | Ripple |
| 1 | | | 5×11 | 12 |
| 2.2 | | | 5×11 | 14 |
| 3.3 | | | 5×11 | 19 |
| 4.7 | | | 5×11 | 23 |
| 10 | | | 5×11 | 30 |
| 22 | 5×11 | 44 | 6.3×11 | 44 |
| 33 | 6.3×11 | 56 | 6.3×11 | 56 |
| 47 | 6.3×11 | 68 | 8×11.5 | 78 |
| 100 | 10×12.5 | 142 | 10×16 | 149 |
| 220 | 10×20 | 256 | 12.5×20 | 277 |
| 330 | 12.5×20 | 343 | 12.5×25 | 364 |
| 470 | 12.5×25 | 402 | | |