

AX series

105°C 1000~2000時間品 超小形化品
Load Life: 105°C, 1000~2000 hours, Ultra Miniaturized

・携帯機器 ACアダプタ用
Suitable for AC-adaptor of portable device.



◆規格表/SPECIFICATIONS

| 項目 Item | 特性 Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|------------------------------|--|-------------------------|---|---|---------------------|----------------------|-------------------|------|-------|------|------|------|------|---------------|-------------------|----|----|----|----|---|---|----|---------|
| カテゴリ温度範囲 Category Temperature Range | -40~+105°C | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 定格電圧範囲 Rated Voltage Range | 6.3~35, 400Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 静電容量許容差 Capacitance Tolerance | ±20%(20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 漏れ電流 Leakage Current (MAX) | 6.3~35Vdc | 400Vdc | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 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 3 μA whichever is greater. (After 2 minutes) I=0.04CV+100 μA以下 (定格電圧印加1分後) I=0.04CV+100 μA (After 1 minute application of rated voltage) I=0.02CV+25 μA以下 (定格電圧印加5分後) I=0.02CV+25 μA (After 5 minutes application of rated voltage) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 損失角の正接 (tan δ) Dissipation Factor (MAX) | I=漏れ電流 (μA) C=静電容量 (μF) V=定格電圧 (Vdc) Leakage Current Capacitance Rated Voltage | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>定格電圧 (Vdc) Rated Voltage</th> <th>6.3</th> <th>8</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>400</th> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.22</td> <td>0.20</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.25</td> </tr> </tbody> </table> | 定格電圧 (Vdc) Rated Voltage | 6.3 | 8 | 10 | 16 | 25 | 35 | 400 | tan δ | 0.22 | 0.20 | 0.19 | 0.16 | 0.14 | 0.12 | 0.25 | (20°C, 120Hz) | | | | | | | | | |
| 定格電圧 (Vdc) Rated Voltage | 6.3 | 8 | 10 | 16 | 25 | 35 | 400 | | | | | | | | | | | | | | | | | | | | |
| tan δ | 0.22 | 0.20 | 0.19 | 0.16 | 0.14 | 0.12 | 0.25 | | | | | | | | | | | | | | | | | | | | |
| 耐久性 Endurance | 105°C中で右表の時間定格電圧(リップル重畳)印加後、下記項目を満足すること。 After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <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. | <table border="1"> <thead> <tr> <th>ケースサイズ Case Size</th> <th>時間(hrs) Time(hrs)</th> </tr> </thead> <tbody> <tr> <td>L ≤ 7.5</td> <td>1000</td> </tr> <tr> <td>L ≥ 9</td> <td>2000</td> </tr> </tbody> </table> | ケースサイズ Case Size | 時間(hrs) Time(hrs) | L ≤ 7.5 | 1000 | L ≥ 9 | 2000 | | | | | | | | | | | | | |
| | 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. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ケースサイズ Case Size | 時間(hrs) Time(hrs) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L ≤ 7.5 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L ≥ 9 | 2000 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 (Vdc) Rated Voltage</th> <th>6.3</th> <th>8</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>400</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>6</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>12</td> <td>12</td> <td>12</td> <td>10</td> <td>8</td> <td>6</td> <td>10</td> </tr> </tbody> </table> | | 定格電圧 (Vdc) Rated Voltage | 6.3 | 8 | 10 | 16 | 25 | 35 | 400 | Z(-25°C)/Z(+20°C) | 2 | 2 | 2 | 2 | 2 | 2 | 6 | Z(-40°C)/Z(+20°C) | 12 | 12 | 12 | 10 | 8 | 6 | 10 | (120Hz) |
| | 定格電圧 (Vdc) Rated Voltage | 6.3 | 8 | 10 | 16 | 25 | 35 | 400 | | | | | | | | | | | | | | | | | | | |
| | Z(-25°C)/Z(+20°C) | 2 | 2 | 2 | 2 | 2 | 2 | 6 | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(+20°C) | 12 | 12 | 12 | 10 | 8 | 6 | 10 | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

◆呼称方法/PART NUMBER

AX M D x L
 定格電圧 シリーズ名 静電容量 静電容量許容差 副記号 リード加工記号 ケースサイズ
 Rated Voltage Series Capacitance Capacitance Tolerance Option Lead Forming Case Size

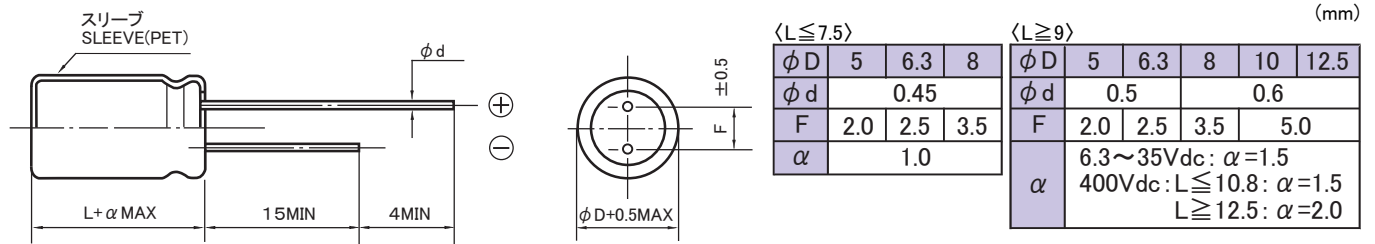
◆副記号/OPTION

EFC : PETスリーブ PET Sleeve

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

| 6.3~35Vdc | | | | | | 400Vdc | | | | | | |
|-------------------|----------------|----------|------|------|--------|-------------------|----------------|--------|------------|------|------|-------|
| 係数 Coefficient | Frequency (Hz) | 120 | 1k | 10k | 100k ≤ | 係数 Coefficient | Frequency (Hz) | 60(50) | 120 | 500 | 1k | 10k ≤ |
| | | 68~82 μF | 0.21 | 0.73 | 0.92 | | 1.00 | | 4.7~8.2 μF | 0.65 | 1.00 | 1.20 |
| | 150~270 μF | 0.36 | 0.73 | 0.92 | 1.00 | | 10~24 μF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 330~750 μF | 0.55 | 0.77 | 0.94 | 1.00 | | | | | | | |
| | 820~1200 μF | 0.60 | 0.80 | 0.96 | 1.00 | | | | | | | |

◆寸法図／DIMENSIONS



◆標準品一覧表／STANDARD SIZE

Rated Ripple Current (mA r.m.s./105°C, 100kHz), Impedance (Ω MAX/20°C, 100kHz)

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μF) | 外形寸法 Size $\phi D \times L$ (mm) | 定格リップル 電流 Rated Ripple Current | インピーダンス Impedance |
|--------------------------------|------------------------------------|--|---|----------------------|
| 6.3 | 82 | 5×7 | 510 | 0.25 |
| | 220 | 5×11 | 800 | 0.14 |
| | | 6.3×7 | 720 | 0.13 |
| | 470 | 6.3×11 | 1140 | 0.067 |
| | | 8×7.5 | 1080 | 0.065 |
| | 680 | 8×9 | 1360 | 0.049 |
| | 820 | 8×10.8 | 1600 | 0.042 |
| | 1000 | 8×16 | 2010 | 0.027 |
| 10×9 | | 1540 | 0.036 | |
| 1200 | 10×12.5 | 1970 | 0.025 | |
| 8 | 75 | 5×7 | 510 | 0.25 |
| | 200 | 5×11 | 800 | 0.14 |
| | | 6.3×7 | 720 | 0.13 |
| | 390 | 8×7.5 | 1080 | 0.065 |
| | 430 | 6.3×11 | 1140 | 0.067 |
| | 620 | 8×9 | 1360 | 0.049 |
| | 750 | 8×10.8 | 1600 | 0.042 |
| | 910 | 8×16 | 2010 | 0.027 |
| | | 10×9 | 1540 | 0.036 |
| | 1100 | 10×12.5 | 1970 | 0.025 |
| 10 | 68 | 5×7 | 510 | 0.25 |
| | 180 | 5×11 | 800 | 0.14 |
| | | 6.3×7 | 720 | 0.13 |
| | 330 | 8×7.5 | 1080 | 0.065 |
| | 390 | 6.3×11 | 1140 | 0.067 |
| | 560 | 8×9 | 1360 | 0.049 |
| | 680 | 8×10.8 | 1600 | 0.042 |
| | | 8×16 | 2010 | 0.027 |
| | 820 | 10×9 | 1540 | 0.036 |
| 1000 | | 10×12.5 | 1970 | 0.025 |

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μF) | 外形寸法 Size $\phi D \times L$ (mm) | 定格リップル 電流 Rated Ripple Current | インピーダンス Impedance |
|--------------------------------|------------------------------------|--|---|----------------------|
| 16 | 390 | 8×9 | 1360 | 0.049 |
| | 470 | 8×10.8 | 1600 | 0.042 |
| | 560 | 8×16 | 2010 | 0.027 |
| | | 10×9 | 1540 | 0.036 |
| | 680 | 10×12.5 | 1970 | 0.025 |
| | 1000 | 10×16 | 2480 | 0.019 |
| 25 | 220 | 8×9 | 1360 | 0.049 |
| | 270 | 8×10.8 | 1600 | 0.042 |
| | 390 | 8×16 | 2010 | 0.027 |
| | | 10×9 | 1540 | 0.036 |
| | 470 | 10×12.5 | 1970 | 0.025 |
| | 680 | 10×16 | 2480 | 0.019 |
| 35 | 150 | 8×9 | 1360 | 0.049 |
| | 180 | 8×10.8 | 1600 | 0.042 |
| | 220 | 8×16 | 2010 | 0.027 |
| | | 10×9 | 1540 | 0.036 |
| | 270 | 10×12.5 | 1970 | 0.025 |
| | 390 | 10×16 | 2480 | 0.019 |

Rated Ripple Current (mA r.m.s./105°C, 120Hz)

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μF) | 外形寸法 Size $\phi D \times L$ (mm) | 定格リップル 電流 Rated Ripple Current |
|--------------------------------|------------------------------------|--|---|
| 400 | 4.7 | 8×9 | 50 |
| | 6.8 | 8×10.8 | 70 |
| | 7.5 | 8×10.8 | 75 |
| | 8.2 | 8×16 | 85 |
| | | 10×9 | |
| | 10 | 8×16 | 90 |
| | | 10×12.5 | 100 |
| | 12 | 8×20 | 120 |
| | | 10×12.5 | 110 |
| | 15 | 8×20 | 130 |
| | | 10×16 | 150 |
| | 18 | 10×16 | 150 |
| | 22 | 12.5×16 | 180 |
| 24 | 12.5×16 | 190 | |