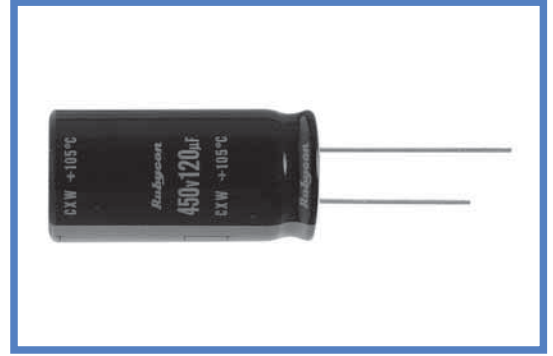


CXW 系列  
SERIES

105℃长寿命 (5000小时) 超小型化品  
105℃ Long Life (5000 hours), Ultra Miniaturized

◆特 长 / FEATURES

- 105℃、5000小时品。  
Load Life : 105℃ 5000 hours.
- $\phi 10 \sim \phi 18$ 超小型设计、高纹波电流。  
Body diameter of  $\phi 10\text{mm}$  to  $\phi 18\text{mm}$  with high ripple current capability.
- 将以往KXW系列小型化、长寿命化。  
This series is smaller and longer life than the current KXW series.
- RoHS指令对应品。  
RoHS compliance.



◆规格表 / SPECIFICATIONS

| 项 目<br>Items                                                             | 特 性<br>Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |                                     |                                                 |                                   |                                                          |                          |                                             |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|-------------------------------------------------|-----------------------------------|----------------------------------------------------------|--------------------------|---------------------------------------------|
| 工 作 温 度 范 围<br>Category Temperature Range                                | - 25 ~ + 105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                                     |                                                 |                                   |                                                          |                          |                                             |
| 额 定 电 压 范 围<br>Rated Voltage Range                                       | 400 ~ 450V.DC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                                     |                                                 |                                   |                                                          |                          |                                             |
| 静 电 容 量 允 许 差<br>Capacitance Tolerance                                   | ± 20% (20℃ , 120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                     |                                                 |                                   |                                                          |                          |                                             |
| 漏 电 流<br>Leakage Current(MAX)                                            | I=3√CV (施加额定电压5分钟后)<br>I=3√CV (After 5 minutes application of rated voltage)<br>I = 漏电流 (μA)                      C = 静电容量 (μF)                      V = 额定电压 (V)<br>Leakage Current                      Capacitance                      Rated Voltage                                                                                                                                                                                                                                                                                        |               |                                     |                                                 |                                   |                                                          |                          |                                             |
| 损 失 角 正 切 值 (tan δ )<br>Dissipation Factor(MAX)                          | <table><tr><td>额定电压 (V)<br/>Rated Voltage</td><td>400 ~ 450</td><td rowspan="2">(20℃ , 120Hz)</td></tr><tr><td>tan δ</td><td>0.2</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                              |               | 额定电压 (V)<br>Rated Voltage           | 400 ~ 450                                       | (20℃ , 120Hz)                     | tan δ                                                    | 0.2                      |                                             |
| 额定电压 (V)<br>Rated Voltage                                                | 400 ~ 450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (20℃ , 120Hz) |                                     |                                                 |                                   |                                                          |                          |                                             |
| tan δ                                                                    | 0.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                     |                                                 |                                   |                                                          |                          |                                             |
| 耐 久 性<br>Endurance                                                       | 在105℃环境中，不超过额定电压的范围内叠加额定纹波电流，连续加载5000小时后，满足以下各项要求。<br>After applying rated voltage with rated ripple current for 5000 hours at 105℃, the capacitors shall meet the following requirements. <table><tr><td>静 电 容 量 变 化 率<br/>Capacitance Change</td><td>初期值的±20%以内<br/>Within ±20% of the initial value.</td></tr><tr><td>损 失 角 正 切 值<br/>Dissipation Factor</td><td>规格值的200%以下<br/>Not more than 200% of the specified value.</td></tr><tr><td>漏 电 流<br/>Leakage Current</td><td>规格值以下<br/>Not more than the specified value.</td></tr></table> |               | 静 电 容 量 变 化 率<br>Capacitance Change | 初期值的±20%以内<br>Within ±20% of the initial value. | 损 失 角 正 切 值<br>Dissipation Factor | 规格值的200%以下<br>Not more than 200% of the specified value. | 漏 电 流<br>Leakage Current | 规格值以下<br>Not more than the specified value. |
| 静 电 容 量 变 化 率<br>Capacitance Change                                      | 初期值的±20%以内<br>Within ±20% of the initial value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                     |                                                 |                                   |                                                          |                          |                                             |
| 损 失 角 正 切 值<br>Dissipation Factor                                        | 规格值的200%以下<br>Not more than 200% of the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |                                     |                                                 |                                   |                                                          |                          |                                             |
| 漏 电 流<br>Leakage Current                                                 | 规格值以下<br>Not more than the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                                     |                                                 |                                   |                                                          |                          |                                             |
| 低 温 特 性<br>Low Temperature Stability<br>(阻 抗 比)<br>Impedance Ratio (MAX) | <table><tr><td>额定电压 (V)<br/>Rated Voltage</td><td>400 ~ 450</td><td rowspan="2">(120Hz)</td></tr><tr><td>Z( - 25℃ )/Z(20℃ )</td><td>8</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                         |               | 额定电压 (V)<br>Rated Voltage           | 400 ~ 450                                       | (120Hz)                           | Z( - 25℃ )/Z(20℃ )                                       | 8                        |                                             |
| 额定电压 (V)<br>Rated Voltage                                                | 400 ~ 450                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (120Hz)       |                                     |                                                 |                                   |                                                          |                          |                                             |
| Z( - 25℃ )/Z(20℃ )                                                       | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                                     |                                                 |                                   |                                                          |                          |                                             |

◆纹波电流修正系数 / MULTIPLIER FOR RIPPLE CURRENT

频率系数 Frequency Coefficient

| 频率 (Hz)<br>Frequency | 60(50) | 120  | 500  | 1k   | 10k $\leq$ |
|----------------------|--------|------|------|------|------------|
| 系 数<br>Coefficient   | 0.8    | 1.00 | 1.25 | 1.40 | 1.50       |

◆副记号 / OPTION

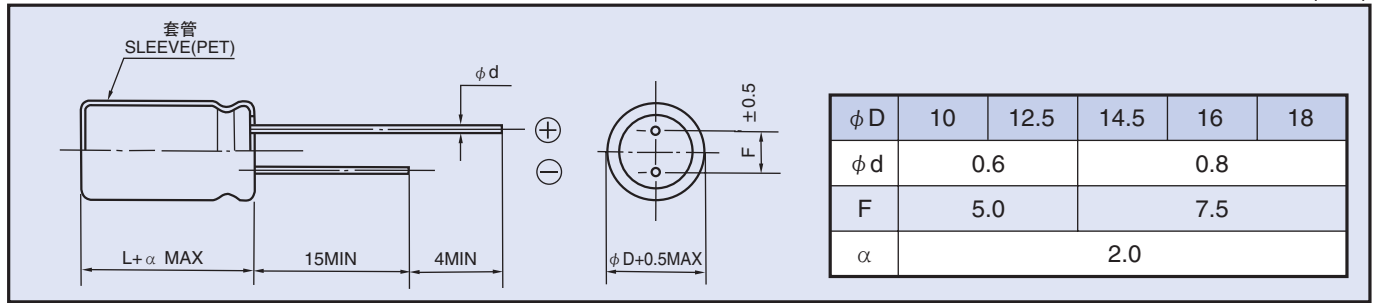
| 副记号<br>Option    | 记号 Code |
|------------------|---------|
| PET套管 PET Sleeve | EFC     |

◆产品型号体系 / PART NUMBER

|                         |                |                         |                                  |                         |                        |                   |
|-------------------------|----------------|-------------------------|----------------------------------|-------------------------|------------------------|-------------------|
| $\square\square\square$ | CXW            | $\square\square\square$ | M                                | $\square\square\square$ | $\square\square$       | D x L             |
| 额定电压<br>Rated Voltage   | 系列名称<br>Series | 静电容量<br>Capacitance     | 静电容量允许差<br>Capacitance Tolerance | 副记号<br>Option           | 引线加工记号<br>Lead Forming | 铝壳尺寸<br>Case Size |

◆尺寸图 / DIMENSIONS

(mm)



◆标准品一览表 / STANDARD SIZE

| 额定电压<br>Rated Voltage<br>(V · DC) | 静电容量<br>Capacitance (μF) | 外形尺寸<br>Size<br>φ D × L<br>(mm) | 额定纹波电流<br>Rated Ripple Current<br>(A r.m.s. 105°C, 120Hz) | 额定电压<br>Rated Voltage<br>(V · DC) | 静电容量<br>Capacitance (μF) | 外形尺寸<br>Size<br>φ D × L<br>(mm) | 额定纹波电流<br>Rated Ripple Current<br>(A r.m.s. 105°C, 120Hz) |
|-----------------------------------|--------------------------|---------------------------------|-----------------------------------------------------------|-----------------------------------|--------------------------|---------------------------------|-----------------------------------------------------------|
| 400                               | 39                       | 10 × 40                         | 0.37                                                      | 450                               | 33                       | 10 × 40                         | 0.34                                                      |
|                                   | 47                       | 10 × 45                         | 0.42                                                      |                                   | 39                       | 10 × 45                         | 0.38                                                      |
|                                   | 56                       | 10 × 50                         | 0.47                                                      |                                   | 47                       | 12.5 × 40                       | 0.44                                                      |
|                                   | 68                       | 12.5 × 40                       | 0.54                                                      |                                   | 56                       | 12.5 × 40                       | 0.49                                                      |
|                                   | 82                       | 12.5 × 45                       | 0.61                                                      |                                   | 68                       | 12.5 × 45                       | 0.55                                                      |
|                                   | 82                       | 14.5 × 31.5                     | 0.57                                                      |                                   | 68                       | 14.5 × 31.5                     | 0.52                                                      |
|                                   | 100                      | 12.5 × 50                       | 0.68                                                      |                                   | 82                       | 12.5 × 50                       | 0.62                                                      |
|                                   | 100                      | 14.5 × 40                       | 0.69                                                      |                                   | 82                       | 14.5 × 40                       | 0.63                                                      |
|                                   | 100                      | 16 × 31.5                       | 0.71                                                      |                                   | 82                       | 16 × 31.5                       | 0.64                                                      |
|                                   | 120                      | 14.5 × 45                       | 0.79                                                      |                                   | 100                      | 14.5 × 45                       | 0.71                                                      |
|                                   | 120                      | 16 × 35                         | 0.80                                                      |                                   | 100                      | 16 × 35                         | 0.73                                                      |
|                                   | 150                      | 16 × 40                         | 0.92                                                      |                                   | 120                      | 14.5 × 50                       | 0.79                                                      |
|                                   | 150                      | 18 × 31.5                       | 0.89                                                      |                                   | 120                      | 16 × 40                         | 0.82                                                      |
|                                   | 180                      | 16 × 50                         | 1.08                                                      |                                   | 120                      | 18 × 31.5                       | 0.80                                                      |
|                                   | 180                      | 18 × 40                         | 1.06                                                      |                                   | 150                      | 16 × 50                         | 0.98                                                      |
|                                   | 220                      | 18 × 45                         | 1.20                                                      |                                   | 150                      | 18 × 40                         | 0.97                                                      |
| 420                               | 39                       | 10 × 40                         | 0.36                                                      |                                   | 180                      | 18 × 45                         | 1.09                                                      |
|                                   | 47                       | 10 × 50                         | 0.43                                                      |                                   | 220                      | 18 × 50                         | 1.22                                                      |
|                                   | 56                       | 12.5 × 40                       | 0.48                                                      |                                   |                          |                                 |                                                           |
|                                   | 68                       | 12.5 × 40                       | 0.52                                                      |                                   |                          |                                 |                                                           |
|                                   | 68                       | 14.5 × 31.5                     | 0.52                                                      |                                   |                          |                                 |                                                           |
|                                   | 82                       | 12.5 × 45                       | 0.59                                                      |                                   |                          |                                 |                                                           |
|                                   | 82                       | 14.5 × 35                       | 0.59                                                      |                                   |                          |                                 |                                                           |
|                                   | 100                      | 14.5 × 40                       | 0.67                                                      |                                   |                          |                                 |                                                           |
|                                   | 100                      | 16 × 31.5                       | 0.69                                                      |                                   |                          |                                 |                                                           |
|                                   | 120                      | 14.5 × 45                       | 0.75                                                      |                                   |                          |                                 |                                                           |
|                                   | 120                      | 16 × 35                         | 0.78                                                      |                                   |                          |                                 |                                                           |
|                                   | 120                      | 18 × 31.5                       | 0.80                                                      |                                   |                          |                                 |                                                           |
|                                   | 150                      | 16 × 45                         | 0.94                                                      |                                   |                          |                                 |                                                           |
|                                   | 150                      | 18 × 35                         | 0.92                                                      |                                   |                          |                                 |                                                           |
|                                   | 180                      | 16 × 50                         | 1.05                                                      |                                   |                          |                                 |                                                           |
|                                   | 180                      | 18 × 40                         | 1.04                                                      |                                   |                          |                                 |                                                           |
|                                   | 220                      | 18 × 50                         | 1.22                                                      |                                   |                          |                                 |                                                           |