

CXW series

105℃ 5000時間 超小形化品 -40℃対応
105℃ 5000 hours, Ultra Miniaturized, -40℃~+105℃



◆規格表／SPECIFICATIONS

| 項目 Item | 特性 Characteristics | | | | | | | | |
|--|---|-------------------------------|---|------------------------------|--|-------------------------|---|---|---|
| カテゴリ温度範囲 Category Temperature Range | -40～+105℃ | | | | | | | | |
| 定格電圧範囲 Rated Voltage Range | 180～450Vdc | | | | | | | | |
| 静電容量許容差 Capacitance Tolerance | ±20% (20℃, 120Hz) | | | | | | | | |
| 漏れ電流 Leakage Current (MAX) | I=3√CV (定格電圧印加5分後) I=3√CV (After 5 minutes application of rated voltage) I=漏れ電流 (μ A) C=静電容量 (μ F) V=定格電圧 (Vdc) Leakage Current Capacitance Rated Voltage | | | | | | | | |
| 損失角の正接 (tan δ) Dissipation Factor (MAX) | <table><tr><td>定格電圧 (Vdc) Rated Voltage</td><td>180～ 450</td></tr><tr><td>tan δ</td><td>0.20</td></tr></table> (20℃, 120Hz) | 定格電圧 (Vdc) Rated Voltage | 180～ 450 | tan δ | 0.20 | | | | |
| 定格電圧 (Vdc) Rated Voltage | 180～ 450 | | | | | | | | |
| tan δ | 0.20 | | | | | | | | |
| 耐久性 Endurance | 105℃中で5000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 5000 hours at 105℃, the capacitors shall meet the following requirements. <table><tr><td>静電容量変化率 Capacitance Change</td><td>初期値の ±20% 以内 Within ±20% 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></table> | 静電容量変化率 Capacitance Change | 初期値の ±20% 以内 Within ±20% 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 ±20% 以内 Within ±20% 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><tr><td>定格電圧 (Vdc) Rated Voltage</td><td>180～ 250</td><td>350, 400</td><td>420, 450</td></tr><tr><td>Z(-25℃)/Z(+20℃)</td><td>3</td><td>5</td><td>6</td></tr></table> (120Hz) | 定格電圧 (Vdc) Rated Voltage | 180～ 250 | 350, 400 | 420, 450 | Z(-25℃)/Z(+20℃) | 3 | 5 | 6 |
| 定格電圧 (Vdc) Rated Voltage | 180～ 250 | 350, 400 | 420, 450 | | | | | | |
| Z(-25℃)/Z(+20℃) | 3 | 5 | 6 | | | | | | |

◆呼称方法／PART NUMBER

| | | | | | | |
|-----------------------|-----------------|---------------------|----------------------------------|---------------|-------------------------|---------------------|
| □□□ | CXW | □□□□□ | M | □□□ | □□ | D x L |
| 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 |

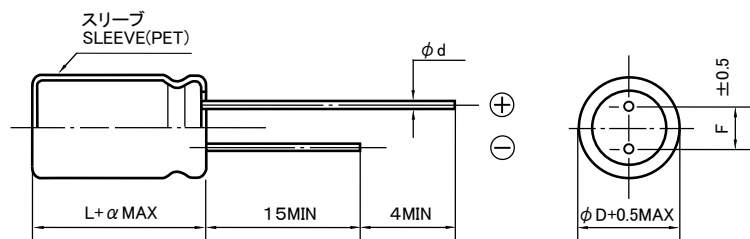
◆リップル電流補正係数／ MULTIPLIER FOR RIPPLE CURRENT

| 周波数 (Hz) Frequency | 60(50) | 120 | 500 | 1k | 10k≤ |
|-----------------------|------------------|------|------|------|------|
| 係数 Coefficient | 180~350v 0.65 | 1.00 | 1.25 | 1.40 | 1.50 |
| | 400~450v 0.80 | 1.00 | 1.25 | 1.40 | 1.50 |

◆副記号／OPTION

EFR : PETスリーブ PET Sleeve

◆寸法図／DIMENSIONS



(mm)

| | | | | | | |
|----------|-----|-----|------|------|----|----|
| ϕD | 8 | 10 | 12.5 | 14.5 | 16 | 18 |
| ϕd | 0.6 | | | 0.8 | | |
| F | 3.5 | 5.0 | | 7.5 | | |
| α | 2.0 | | | | | |

◆標準品一覧表／STANDARD SIZE

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

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μ F) | 外形寸法 Size φ D × L (mm) | 定格リプル 電流 Rated Ripple Current |
|--------------------------------|------------------------------|------------------------------|--|
| 180 | 120 | 10×40 | 0.53 |
| | 150 | 10×45 | 0.61 |
| | 180 | 10×50 | 0.69 |
| | 220 | 12.5×40 | 0.80 |
| | 220 | 14.5×31.5 | 0.80 |
| | 270 | 12.5×45 | 0.91 |
| | 270 | 14.5×35 | 0.90 |
| | 270 | 16×31.5 | 0.92 |
| | 330 | 14.5×45 | 1.09 |
| | 330 | 16×35 | 1.04 |
| | 330 | 18×31.5 | 1.03 |
| | 390 | 16×40 | 1.17 |
| | 390 | 18×35 | 1.14 |
| | 470 | 16×45 | 1.31 |
| | 470 | 18×40 | 1.29 |
| | 560 | 18×45 | 1.44 |
| 200 | 680 | 18×50 | 1.59 |
| | 120 | 10×40 | 0.54 |
| | 150 | 10×45 | 0.62 |
| | 180 | 12.5×40 | 0.73 |
| | 220 | 12.5×45 | 0.84 |
| | 220 | 14.5×35 | 0.83 |
| | 220 | 16×31.5 | 0.85 |
| | 270 | 12.5×50 | 0.94 |
| | 270 | 14.5×40 | 0.96 |
| | 330 | 14.5×45 | 1.08 |
| | 330 | 16×40 | 1.10 |
| | 330 | 18×31.5 | 1.02 |
| | 390 | 16×45 | 1.23 |
| | 390 | 18×35 | 1.13 |
| | 470 | 16×50 | 1.37 |
| | 470 | 18×40 | 1.29 |
| | 560 | 18×45 | 1.44 |

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μ F) | 外形寸法 Size φ D × L (mm) | 定格リプル 電流 Rated Ripple Current |
|--------------------------------|------------------------------|------------------------------|--|
| 250 | 82 | 10×40 | 0.45 |
| | 100 | 10×45 | 0.52 |
| | 120 | 10×50 | 0.59 |
| | 150 | 12.5×40 | 0.65 |
| | 150 | 14.5×31.5 | 0.68 |
| | 180 | 12.5×45 | 0.77 |
| | 180 | 14.5×35 | 0.77 |
| | 180 | 16×31.5 | 0.79 |
| | 220 | 14.5×40 | 0.88 |
| | 220 | 16×35 | 0.89 |
| | 220 | 18×31.5 | 0.88 |
| | 270 | 16×40 | 1.01 |
| | 270 | 18×35 | 0.99 |
| | 330 | 16×45 | 1.15 |
| | 330 | 18×40 | 1.13 |
| | 390 | 18×45 | 1.27 |
| 350 | 470 | 18×50 | 1.41 |
| | 56 | 10×40 | 0.37 |
| | 68 | 10×45 | 0.43 |
| | 100 | 12.5×40 | 0.56 |
| | 100 | 14.5×31.5 | 0.56 |
| | 120 | 12.5×50 | 0.66 |
| | 120 | 14.5×35 | 0.63 |
| | 120 | 16×31.5 | 0.65 |
| | 150 | 14.5×45 | 0.76 |
| | 150 | 16×35 | 0.74 |
| | 150 | 18×31.5 | 0.74 |
| | 180 | 16×40 | 0.84 |
| | 180 | 18×35 | 0.83 |
| | 220 | 16×50 | 0.99 |
| | 220 | 18×40 | 0.93 |
| | 270 | 18×45 | 1.03 |

◆標準品一覧表／STANDARD SIZE

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

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μ F) | 外形寸法 Size ϕ D \times L (mm) | 定格リプル 電流 RatedRipple Current |
|-----------------------------------|-----------------------------------|--|---------------------------------------|
| 400 | 15 | 8×25 | 0.16 |
| | 18 | 8×30 | 0.19 |
| | 22 | 8×35 | 0.22 |
| | 27 | 8×40 | 0.25 |
| | 33 | 8×45 | 0.29 |
| | 39 | 10×40 | 0.37 |
| | 47 | 10×45 | 0.42 |
| | 56 | 10×50 | 0.47 |
| | 68 | 12.5×40 | 0.54 |
| | 82 | 12.5×45 | 0.61 |
| | 82 | 14.5×31.5 | 0.57 |
| | 100 | 12.5×50 | 0.68 |
| | 100 | 14.5×40 | 0.69 |
| | 100 | 16×31.5 | 0.71 |
| | 120 | 14.5×45 | 0.79 |
| | 120 | 16×35 | 0.80 |
| | 150 | 16×40 | 0.92 |
| | 150 | 18×31.5 | 0.89 |
| | 150 | 18×40 | 1.05 |
| | 180 | 16×50 | 1.08 |
| | 180 | 18×40 | 1.06 |
| | 220 | 18×45 | 1.20 |
| 420 | 12 | 8×25 | 0.10 |
| | 15 | 8×30 | 0.12 |
| | 18 | 8×35 | 0.16 |
| | 22 | 8×40 | 0.19 |
| | 39 | 10×40 | 0.36 |
| | 47 | 10×50 | 0.43 |
| | 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 |

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μ F) | 外形寸法 Size ϕ D \times L (mm) | 定格リプル 電流 RatedRipple Current |
|-----------------------------------|-----------------------------------|--|---------------------------------------|
| 450 | 10 | 8×25 | 0.12 |
| | 12 | 8×30 | 0.14 |
| | 15 | 8×35 | 0.16 |
| | 18 | 8×40 | 0.18 |
| | 22 | 8×50 | 0.22 |
| | 33 | 10×40 | 0.34 |
| | 39 | 10×45 | 0.38 |
| | 47 | 12.5×40 | 0.44 |
| | 56 | 12.5×40 | 0.49 |
| | 68 | 12.5×45 | 0.55 |
| | 68 | 14.5×31.5 | 0.52 |
| | 82 | 12.5×50 | 0.62 |
| | 82 | 14.5×40 | 0.63 |
| | 82 | 16×31.5 | 0.64 |
| | 100 | 14.5×45 | 0.71 |
| | 100 | 16×35 | 0.73 |
| | 120 | 14.5×50 | 0.79 |
| | 120 | 16×40 | 0.82 |
| | 120 | 18×31.5 | 0.80 |
| | 120 | 18×40 | 0.85 |
| | 150 | 16×50 | 0.98 |
| | 150 | 18×40 | 0.97 |
| | 180 | 18×45 | 1.09 |
| | 220 | 18×50 | 1.22 |