

LXW series

105°C長寿命(10000~12000時間)超小形化品 -40°C対応
105°C 10000~12000 hours, Ultra Miniaturized, -40°C~105°C



◆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 | 400~500Vdc | | | | | | | | | | | | | | | | | | |
| 静電容量許容差 Capacitance Tolerance | ±20%(20°C, 120Hz) | | | | | | | | | | | | | | | | | | |
| 漏れ電流 Leakage Current (MAX) | $I=3\sqrt{CV}$ (定格電圧印加5分後) $I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I=漏れ電流(μA) C=静電容量(μF) V=定格電圧(Vdc) Leakage Current Capacitance Rated Voltage | | | | | | | | | | | | | | | | | | |
| 損失角の正接(tan δ) Dissipation Factor (MAX) | <table border="1"> <tr> <td>定格電圧 (Vdc) Rated Voltage</td> <td>400</td> <td>420~500</td> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tan δ</td> <td>0.20</td> <td>0.25</td> <td></td> </tr> </table> | 定格電圧 (Vdc) Rated Voltage | 400 | 420~500 | (20°C, 120Hz) | tan δ | 0.20 | 0.25 | | | | | | | | | | | |
| 定格電圧 (Vdc) Rated Voltage | 400 | 420~500 | (20°C, 120Hz) | | | | | | | | | | | | | | | | |
| tan δ | 0.20 | 0.25 | | | | | | | | | | | | | | | | | |
| 耐久性 Endurance | <p>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.</p> <table border="1"> <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> <td>ケースサイズ Case Size</td> <td>時間(hrs) Time(hrs)</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> <td>L ≤ 20</td> <td>10000</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>L ≥ 25</td> <td>12000</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. | ケースサイズ Case Size | 時間(hrs) Time(hrs) | 損失角の正接 Dissipation Factor | 規格値の 200% 以下 Not more than 200% of the specified value. | L ≤ 20 | 10000 | 漏れ電流 Leakage Current | 規格値以下 Not more than the specified value. | L ≥ 25 | 12000 | | | | | | |
| 静電容量変化率 Capacitance Change | 初期値の ±20% 以内 Within ±20% of the initial value. | ケースサイズ Case Size | 時間(hrs) Time(hrs) | | | | | | | | | | | | | | | | |
| 損失角の正接 Dissipation Factor | 規格値の 200% 以下 Not more than 200% of the specified value. | L ≤ 20 | 10000 | | | | | | | | | | | | | | | | |
| 漏れ電流 Leakage Current | 規格値以下 Not more than the specified value. | L ≥ 25 | 12000 | | | | | | | | | | | | | | | | |
| 低温特性 Low Temperature Stability (インピーダンス比) Impedance Ratio (MAX) | <table border="1"> <tr> <td>定格電圧 (Vdc) Rated Voltage</td> <td>400</td> <td>420</td> <td>450</td> <td>500</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>5</td> <td>6</td> <td>6</td> <td>8</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>6</td> <td>10</td> <td>10</td> <td>12</td> <td></td> </tr> </table> | 定格電圧 (Vdc) Rated Voltage | 400 | 420 | 450 | 500 | (120Hz) | Z(-25°C)/Z(+20°C) | 5 | 6 | 6 | 8 | | Z(-40°C)/Z(+20°C) | 6 | 10 | 10 | 12 | |
| 定格電圧 (Vdc) Rated Voltage | 400 | 420 | 450 | 500 | (120Hz) | | | | | | | | | | | | | | |
| Z(-25°C)/Z(+20°C) | 5 | 6 | 6 | 8 | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(+20°C) | 6 | 10 | 10 | 12 | | | | | | | | | | | | | | | |

◆呼称方法/PART NUMBER

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LXW
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M
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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

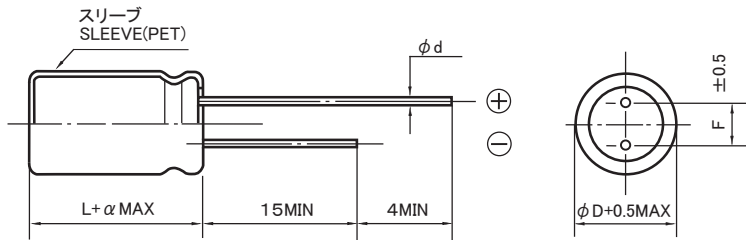
◆リップル電流補正係数/
MULTIPLIER FOR RIPPLE CURRENT

| 周波数 (Hz) Frequency | 60(50) | 120 | 500 | 1k | 10k | 100k ≤ |
|-----------------------|------------|------|------|------|------|--------|
| 係数 Coefficient | 18~82 μF | 0.80 | 1.00 | 1.30 | 1.50 | 2.00 |
| | 100~220 μF | 0.80 | 1.00 | 1.30 | 1.50 | 2.00 |

◆副記号/OPTION

EFR : PETスリーブ PET Sleeve

◆寸法図／DIMENSIONS



| (mm) | | | | | |
|------|-----|------|------|----|----|
| φD | 10 | 12.5 | 14.5 | 16 | 18 |
| φd | 0.6 | | 0.8 | | |
| F | 5.0 | | 7.5 | | |
| α | 2.0 | | | | |

◆標準品一覧表／STANDARD SIZE

Rated Ripple Current (A r.m.s./105°C)

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μF) | 外形寸法 Size φDxL (mm) | 定格リップル電流 Rated Ripple Current | |
|--------------------------------|-----------------------------|---------------------------|----------------------------------|--------|
| | | | 120Hz | 100kHz |
| 400 | 39 | 10x30 | 0.410 | 0.902 |
| | 39 | 12.5x20 | 0.390 | 0.858 |
| | 47 | 10x35 | 0.480 | 1.056 |
| | 47 | 12.5x25 | 0.460 | 1.012 |
| | 47 | 14.5x20 | 0.460 | 1.012 |
| | 56 | 10x40 | 0.540 | 1.188 |
| | 56 | 16x20 | 0.520 | 1.144 |
| | 68 | 10x45 | 0.610 | 1.342 |
| | 68 | 10x50 | 0.640 | 1.408 |
| | 68 | 12.5x30 | 0.580 | 1.276 |
| | 68 | 12.5x35 | 0.620 | 1.364 |
| | 68 | 14.5x25 | 0.590 | 1.298 |
| | 82 | 10x55 | 0.720 | 1.584 |
| | 82 | 10x60 | 0.740 | 1.628 |
| | 82 | 12.5x40 | 0.700 | 1.540 |
| | 82 | 14.5x30 | 0.680 | 1.496 |
| | 82 | 16x25 | 0.660 | 1.452 |
| | 82 | 18x20 | 0.630 | 1.386 |
| | 100 | 12.5x45 | 0.800 | 1.600 |
| | 100 | 12.5x50 | 0.830 | 1.660 |
| | 100 | 14.5x35 | 0.780 | 1.560 |
| | 100 | 16x30 | 0.770 | 1.540 |
| | 120 | 14.5x40 | 0.890 | 1.780 |
| | 120 | 14.5x45 | 0.920 | 1.840 |
| | 120 | 16x35 | 0.880 | 1.760 |
| | 120 | 18x25 | 0.790 | 1.580 |
| | 150 | 14.5x50 | 1.060 | 2.120 |
| | 150 | 16x40 | 1.010 | 2.020 |
| 150 | 18x30 | 0.930 | 1.860 | |
| 180 | 16x45 | 1.140 | 2.280 | |
| 180 | 16x50 | 1.180 | 2.360 | |
| 180 | 18x35 | 1.060 | 2.120 | |
| 180 | 18x40 | 1.140 | 2.280 | |
| 220 | 18x45 | 1.290 | 2.580 | |
| 220 | 18x50 | 1.340 | 2.680 | |

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μF) | 外形寸法 Size φDxL (mm) | 定格リップル電流 Rated Ripple Current | |
|--------------------------------|-----------------------------|---------------------------|----------------------------------|--------|
| | | | 120Hz | 100kHz |
| 420 | 33 | 12.5x20 | 0.340 | 0.748 |
| | 39 | 10x30 | 0.380 | 0.836 |
| | 47 | 10x35 | 0.440 | 0.968 |
| | 47 | 12.5x25 | 0.430 | 0.946 |
| | 47 | 14.5x20 | 0.420 | 0.924 |
| | 56 | 10x40 | 0.490 | 1.078 |
| | 56 | 10x45 | 0.520 | 1.144 |
| | 56 | 12.5x30 | 0.500 | 1.100 |
| | 56 | 14.5x25 | 0.500 | 1.100 |
| | 56 | 16x20 | 0.480 | 1.056 |
| | 68 | 10x50 | 0.590 | 1.298 |
| | 68 | 10x55 | 0.610 | 1.342 |
| | 68 | 12.5x35 | 0.570 | 1.254 |
| | 68 | 18x20 | 0.550 | 1.210 |
| | 82 | 10x60 | 0.680 | 1.496 |
| | 82 | 12.5x40 | 0.650 | 1.430 |
| | 82 | 14.5x30 | 0.630 | 1.386 |
| | 82 | 16x25 | 0.610 | 1.342 |
| | 100 | 12.5x45 | 0.730 | 1.460 |
| | 100 | 12.5x50 | 0.770 | 1.540 |
| | 100 | 14.5x35 | 0.720 | 1.440 |
| | 100 | 14.5x40 | 0.760 | 1.520 |
| | 100 | 16x30 | 0.720 | 1.440 |
| | 100 | 18x25 | 0.700 | 1.400 |
| | 120 | 14.5x45 | 0.860 | 1.720 |
| | 120 | 14.5x50 | 0.890 | 1.780 |
| | 120 | 16x35 | 0.820 | 1.640 |
| | 120 | 18x30 | 0.810 | 1.620 |
| 150 | 16x40 | 0.930 | 1.860 | |
| 150 | 16x45 | 0.980 | 1.960 | |
| 150 | 18x35 | 0.940 | 1.880 | |
| 180 | 16x50 | 1.100 | 2.200 | |
| 180 | 18x40 | 1.060 | 2.120 | |
| 220 | 18x45 | 1.200 | 2.400 | |
| 220 | 18x50 | 1.250 | 2.500 | |

◆標準品一覧表 / STANDARD SIZE

Rated Ripple Current (A r.m.s./105°C)

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μ F) | 外形寸法 Size ϕ DxL (mm) | 定格リプル電流 Rated Ripple Current | |
|--------------------------------|-----------------------------------|---------------------------------|---------------------------------|--------|
| | | | 120Hz | 100kHz |
| 450 | 27 | 12.5×20 | 0.310 | 0.682 |
| | 33 | 10×30 | 0.360 | 0.792 |
| | 39 | 10×35 | 0.410 | 0.902 |
| | 39 | 12.5×25 | 0.400 | 0.880 |
| | 39 | 14.5×20 | 0.390 | 0.858 |
| | 47 | 10×40 | 0.460 | 1.012 |
| | 47 | 16×20 | 0.450 | 0.990 |
| | 56 | 10×45 | 0.520 | 1.144 |
| | 56 | 10×50 | 0.540 | 1.188 |
| | 56 | 12.5×30 | 0.490 | 1.078 |
| | 56 | 14.5×25 | 0.500 | 1.100 |
| | 68 | 10×55 | 0.610 | 1.342 |
| | 68 | 10×60 | 0.630 | 1.386 |
| | 68 | 12.5×35 | 0.560 | 1.232 |
| | 68 | 12.5×40 | 0.600 | 1.320 |
| | 68 | 14.5×30 | 0.580 | 1.276 |
| | 68 | 16×25 | 0.570 | 1.254 |
| | 68 | 18×20 | 0.540 | 1.188 |
| | 82 | 12.5×45 | 0.680 | 1.496 |
| | 82 | 12.5×50 | 0.700 | 1.540 |
| | 82 | 14.5×35 | 0.670 | 1.474 |
| | 82 | 16×30 | 0.650 | 1.430 |
| | 82 | 18×25 | 0.640 | 1.408 |
| | 100 | 14.5×40 | 0.760 | 1.520 |
| | 100 | 16×35 | 0.750 | 1.500 |
| | 120 | 14.5×45 | 0.850 | 1.700 |
| | 120 | 14.5×50 | 0.890 | 1.780 |
| | 120 | 16×40 | 0.860 | 1.720 |
| | 120 | 18×30 | 0.800 | 1.600 |
| | 150 | 16×45 | 0.980 | 1.960 |
| 150 | 16×50 | 1.020 | 2.040 | |
| 150 | 18×35 | 0.920 | 1.840 | |
| 150 | 18×40 | 0.980 | 1.960 | |
| 180 | 18×45 | 1.110 | 2.220 | |
| 220 | 18×50 | 1.230 | 2.460 | |

| 定格電圧 Rated Voltage (Vdc) | 静電容量 Capacitance (μ F) | 外形寸法 Size ϕ DxL (mm) | 定格リプル電流 Rated Ripple Current | |
|--------------------------------|-----------------------------------|---------------------------------|---------------------------------|--------|
| | | | 120Hz | 100kHz |
| 500 | 18 | 12.5×20 | 0.250 | 0.550 |
| | 22 | 12.5×25 | 0.290 | 0.638 |
| | 22 | 14.5×20 | 0.280 | 0.616 |
| | 27 | 16×20 | 0.320 | 0.704 |
| | 33 | 12.5×30 | 0.360 | 0.792 |
| | 33 | 12.5×35 | 0.380 | 0.836 |
| | 33 | 14.5×25 | 0.370 | 0.814 |
| | 39 | 12.5×40 | 0.440 | 0.968 |
| | 39 | 12.5×45 | 0.500 | 1.100 |
| | 39 | 14.5×30 | 0.430 | 0.946 |
| | 39 | 16×25 | 0.420 | 0.924 |
| | 39 | 18×20 | 0.410 | 0.902 |
| | 47 | 12.5×50 | 0.560 | 1.232 |
| | 47 | 14.5×35 | 0.490 | 1.078 |
| | 47 | 16×30 | 0.480 | 1.056 |
| | 56 | 14.5×40 | 0.550 | 1.210 |
| | 56 | 14.5×45 | 0.620 | 1.364 |
| | 56 | 16×35 | 0.590 | 1.298 |
| | 56 | 18×25 | 0.510 | 1.122 |
| | 56 | 18×30 | 0.590 | 1.298 |
| | 68 | 14.5×50 | 0.690 | 1.518 |
| | 68 | 16×40 | 0.620 | 1.364 |
| | 82 | 16×45 | 0.710 | 1.562 |
| | 82 | 16×50 | 0.790 | 1.738 |
| | 82 | 18×35 | 0.680 | 1.496 |
| | 82 | 18×40 | 0.770 | 1.694 |
| | 100 | 18×45 | 0.860 | 1.720 |
| 120 | 18×50 | 0.910 | 1.820 | |