

**LXW SERIES**
**NEW**
**105°C Long Life (10000~12000 hours), Ultra Miniaturized**

• Temperature Range : -40°C~+105°C

 RoHS  
compliance

**◆SPECIFICATIONS**

| Items                                             | Characteristics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |           |                 |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|-----------------|--|---------------------|-----------------------------------|---------|-----------|-----------------|--------------------|--------------------------------------------|---|------|-------|------------------|------------------------------------|----|------|-------|
| Category Temperature Range                        | -40~+105℃                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |           |                 |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
| Rated Voltage Range                               | 400~500Vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |           |                 |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
| Capacitance Tolerance                             | ±20% (20℃,120Hz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |           |                 |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
| Leakage Current(MAX)                              | I=3 √CV    (After 5 minutes application of rated voltage)<br>I=Leakage Current( μ A)      C=Capacitance( μ F)      V=Rated Voltage(Vdc)                                                                                                                                                                                                                                                                                                                                                                                                       |         |           |                 |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
| Dissipation Factor(MAX)                           | <table><tr><td>Rated Voltage (Vdc)</td><td>400</td><td>420~500</td></tr><tr><td>tanδ</td><td>0.20</td><td>0.25</td></tr></table> (20℃,120Hz)                                                                                                                                                                                                                                                                                                                                                                                                  |         |           |                 |  | Rated Voltage (Vdc) | 400                               | 420~500 | tanδ      | 0.20            | 0.25               |                                            |   |      |       |                  |                                    |    |      |       |
| Rated Voltage (Vdc)                               | 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 420~500 |           |                 |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
| tanδ                                              | 0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.25    |           |                 |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
| Endurance                                         | After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td colspan="2">Within ±20% of the initial value.</td><td>Case Size</td><td>Life Time (hrs)</td></tr><tr><td>Dissipation Factor</td><td colspan="2">Not more than 200% of the specified value.</td><td>L≤20</td><td>10000</td></tr><tr><td>Leakage Current</td><td colspan="2">Not more than the specified value.</td><td>L≥25</td><td>12000</td></tr></table> |         |           |                 |  | Capacitance Change  | Within ±20% of the initial value. |         | Case Size | Life Time (hrs) | Dissipation Factor | Not more than 200% of the specified value. |   | L≤20 | 10000 | Leakage Current  | Not more than the specified value. |    | L≥25 | 12000 |
| Capacitance Change                                | Within ±20% of the initial value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         | Case Size | Life Time (hrs) |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
| Dissipation Factor                                | Not more than 200% of the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         | L≤20      | 10000           |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
| Leakage Current                                   | Not more than the specified value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         | L≥25      | 12000           |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
| Low Temperature Stability<br>Impedance Ratio(MAX) | <table><tr><td>Rated Voltage (Vdc)</td><td>400</td><td>420</td><td>450</td><td>500</td></tr><tr><td>Z(-25℃) / Z(20℃)</td><td>5</td><td>6</td><td>6</td><td>8</td></tr><tr><td>Z(-40℃) / Z(20℃)</td><td>6</td><td>10</td><td>10</td><td>12</td></tr></table> (120Hz)                                                                                                                                                                                                                                                                           |         |           |                 |  | Rated Voltage (Vdc) | 400                               | 420     | 450       | 500             | Z(-25℃) / Z(20℃)   | 5                                          | 6 | 6    | 8     | Z(-40℃) / Z(20℃) | 6                                  | 10 | 10   | 12    |
| Rated Voltage (Vdc)                               | 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 420     | 450       | 500             |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
| Z(-25℃) / Z(20℃)                                  | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6       | 6         | 8               |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |
| Z(-40℃) / Z(20℃)                                  | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10      | 10        | 12              |  |                     |                                   |         |           |                 |                    |                                            |   |      |       |                  |                                    |    |      |       |

**◆MULTIPLIER FOR RIPPLE CURRENT**

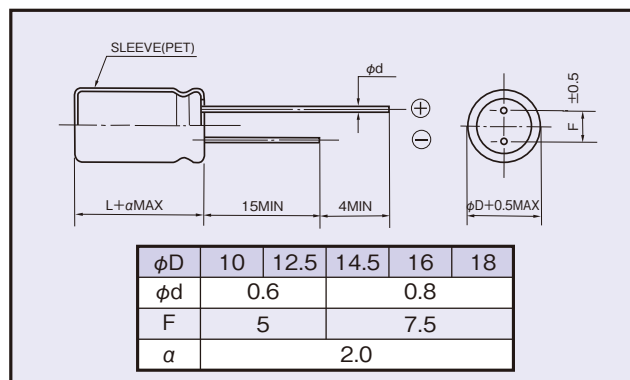
| Frequency (Hz) |           | 60(50) | 120  | 500  | 1k   | 10k  | 100k≤ |
|----------------|-----------|--------|------|------|------|------|-------|
| Coefficient    | 15~82μF   | 0.80   | 1.00 | 1.30 | 1.50 | 2.00 | 2.20  |
|                | 100~220μF | 0.80   | 1.00 | 1.30 | 1.50 | 1.90 | 2.00  |

**◆OPTION**

|                         | Code |
|-------------------------|------|
| PET Sleeve (-40~+105°C) | EFR  |

**◆DIMENSIONS**

(mm)


**◆PART NUMBER**

|               |        |             |                       |        |              |           |
|---------------|--------|-------------|-----------------------|--------|--------------|-----------|
| □□□           | LXW    | □□□□□       | M                     | □□□    | □□           | D×L       |
| Rated Voltage | Series | Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

**◆STANDARD SIZE**

| Rated Voltage<br>(Vdc) | Capacitance<br>( $\mu$ F) | Size<br>$\phi$ D×L<br>(mm) | Rated Ripple Current<br>(A r.m.s./105°C) |        | Rated Voltage<br>(Vdc) | Capacitance<br>( $\mu$ F) | Size<br>$\phi$ D×L<br>(mm) | Rated Ripple Current<br>(A r.m.s./105°C) |        |
|------------------------|---------------------------|----------------------------|------------------------------------------|--------|------------------------|---------------------------|----------------------------|------------------------------------------|--------|
|                        |                           |                            | 120Hz                                    | 100kHz |                        |                           |                            | 120Hz                                    | 100kHz |
| 400                    | 39                        | 10×30                      | 0.410                                    | 0.902  | 420                    | 33                        | 12.5×20                    | 0.340                                    | 0.748  |
|                        | 39                        | 12.5×20                    | 0.390                                    | 0.858  |                        | 39                        | 10×30                      | 0.380                                    | 0.836  |
|                        | 47                        | 10×35                      | 0.480                                    | 1.056  |                        | 47                        | 10×35                      | 0.440                                    | 0.968  |
|                        | 47                        | 12.5×25                    | 0.460                                    | 1.012  |                        | 47                        | 12.5×25                    | 0.430                                    | 0.946  |
|                        | 47                        | 14.5×20                    | 0.460                                    | 1.012  |                        | 47                        | 14.5×20                    | 0.420                                    | 0.924  |
|                        | 56                        | 10×40                      | 0.540                                    | 1.188  |                        | 56                        | 10×40                      | 0.490                                    | 1.078  |
|                        | 56                        | 16×20                      | 0.520                                    | 1.144  |                        | 56                        | 10×45                      | 0.520                                    | 1.144  |
|                        | 68                        | 10×45                      | 0.610                                    | 1.342  |                        | 56                        | 12.5×30                    | 0.500                                    | 1.100  |
|                        | 68                        | 10×50                      | 0.640                                    | 1.408  |                        | 56                        | 14.5×25                    | 0.500                                    | 1.100  |
|                        | 68                        | 12.5×30                    | 0.580                                    | 1.276  |                        | 56                        | 16×20                      | 0.480                                    | 1.056  |
|                        | 68                        | 12.5×35                    | 0.620                                    | 1.364  |                        | 68                        | 10×50                      | 0.590                                    | 1.298  |
|                        | 68                        | 14.5×25                    | 0.590                                    | 1.298  |                        | 68                        | 10×55                      | 0.610                                    | 1.342  |
|                        | 82                        | 10×55                      | 0.720                                    | 1.584  |                        | 68                        | 12.5×35                    | 0.570                                    | 1.254  |
|                        | 82                        | 10×60                      | 0.740                                    | 1.628  |                        | 68                        | 18×20                      | 0.550                                    | 1.210  |
|                        | 82                        | 12.5×40                    | 0.700                                    | 1.540  |                        | 82                        | 10×60                      | 0.680                                    | 1.496  |
|                        | 82                        | 14.5×30                    | 0.680                                    | 1.496  |                        | 82                        | 12.5×40                    | 0.650                                    | 1.430  |
|                        | 82                        | 16×25                      | 0.660                                    | 1.452  |                        | 82                        | 14.5×30                    | 0.630                                    | 1.386  |
|                        | 82                        | 18×20                      | 0.630                                    | 1.386  |                        | 82                        | 16×25                      | 0.610                                    | 1.342  |
|                        | 100                       | 12.5×45                    | 0.800                                    | 1.600  |                        | 100                       | 12.5×45                    | 0.730                                    | 1.460  |
|                        | 100                       | 12.5×50                    | 0.830                                    | 1.660  |                        | 100                       | 12.5×50                    | 0.770                                    | 1.540  |
|                        | 100                       | 14.5×35                    | 0.780                                    | 1.560  |                        | 100                       | 14.5×35                    | 0.720                                    | 1.440  |
|                        | 100                       | 16×30                      | 0.770                                    | 1.540  |                        | 100                       | 14.5×40                    | 0.760                                    | 1.520  |
|                        | 120                       | 14.5×40                    | 0.890                                    | 1.780  |                        | 100                       | 16×30                      | 0.720                                    | 1.440  |
|                        | 120                       | 14.5×45                    | 0.920                                    | 1.840  |                        | 100                       | 18×25                      | 0.700                                    | 1.400  |
|                        | 120                       | 16×35                      | 0.880                                    | 1.760  |                        | 120                       | 14.5×45                    | 0.860                                    | 1.720  |
|                        | 120                       | 18×25                      | 0.790                                    | 1.580  |                        | 120                       | 14.5×50                    | 0.890                                    | 1.780  |
|                        | 150                       | 14.5×50                    | 1.060                                    | 2.120  |                        | 120                       | 16×35                      | 0.820                                    | 1.640  |
|                        | 150                       | 16×40                      | 1.010                                    | 2.020  |                        | 120                       | 18×30                      | 0.810                                    | 1.620  |
|                        | 150                       | 18×30                      | 0.930                                    | 1.860  |                        | 150                       | 16×40                      | 0.930                                    | 1.860  |
|                        | 180                       | 16×45                      | 1.140                                    | 2.280  |                        | 150                       | 16×45                      | 0.980                                    | 1.960  |
|                        | 180                       | 16×50                      | 1.180                                    | 2.360  |                        | 150                       | 18×35                      | 0.940                                    | 1.880  |
|                        | 180                       | 18×35                      | 1.060                                    | 2.120  |                        | 180                       | 16×50                      | 1.100                                    | 2.200  |
|                        | 180                       | 18×40                      | 1.140                                    | 2.280  |                        | 180                       | 18×40                      | 1.060                                    | 2.120  |
|                        | 220                       | 18×45                      | 1.290                                    | 2.580  |                        | 220                       | 18×45                      | 1.200                                    | 2.400  |
|                        | 220                       | 18×50                      | 1.340                                    | 2.680  |                        | 220                       | 18×50                      | 1.250                                    | 2.500  |

**◆STANDARD SIZE**

| Rated Voltage<br>(Vdc) | Capacitance<br>( $\mu$ F) | Size<br>$\phi$ D×L<br>(mm) | Rated Ripple Current<br>(A r.m.s./105°C) |        |
|------------------------|---------------------------|----------------------------|------------------------------------------|--------|
|                        |                           |                            | 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  |

| Rated Voltage<br>(Vdc) | Capacitance<br>( $\mu$ F) | Size<br>$\phi$ D×L<br>(mm) | Rated Ripple Current<br>(A r.m.s./105°C) |        |
|------------------------|---------------------------|----------------------------|------------------------------------------|--------|
|                        |                           |                            | 120Hz                                    | 100kHz |
| 500                    | 15                        | 12.5×20                    | 0.250                                    | 0.550  |
|                        | 18                        | 12.5×25                    | 0.290                                    | 0.638  |
|                        | 18                        | 14.5×20                    | 0.280                                    | 0.616  |
|                        | 22                        | 16×20                      | 0.320                                    | 0.704  |
|                        | 27                        | 12.5×30                    | 0.360                                    | 0.792  |
|                        | 27                        | 12.5×35                    | 0.380                                    | 0.836  |
|                        | 27                        | 14.5×25                    | 0.370                                    | 0.814  |
|                        | 33                        | 12.5×40                    | 0.440                                    | 0.968  |
|                        | 33                        | 14.5×30                    | 0.430                                    | 0.946  |
|                        | 33                        | 16×25                      | 0.420                                    | 0.924  |
|                        | 33                        | 18×20                      | 0.410                                    | 0.902  |
|                        | 39                        | 12.5×45                    | 0.500                                    | 1.100  |
|                        | 39                        | 14.5×35                    | 0.490                                    | 1.078  |
|                        | 39                        | 16×30                      | 0.480                                    | 1.056  |
|                        | 47                        | 12.5×50                    | 0.560                                    | 1.232  |
|                        | 47                        | 14.5×40                    | 0.550                                    | 1.210  |
|                        | 47                        | 18×25                      | 0.510                                    | 1.122  |
|                        | 56                        | 14.5×45                    | 0.620                                    | 1.364  |
|                        | 56                        | 16×35                      | 0.590                                    | 1.298  |
|                        | 56                        | 16×40                      | 0.620                                    | 1.364  |
|                        | 56                        | 18×30                      | 0.590                                    | 1.298  |
|                        | 68                        | 14.5×50                    | 0.690                                    | 1.518  |
|                        | 68                        | 16×45                      | 0.710                                    | 1.562  |
|                        | 68                        | 18×35                      | 0.680                                    | 1.496  |
|                        | 82                        | 16×50                      | 0.790                                    | 1.738  |
|                        | 82                        | 18×40                      | 0.770                                    | 1.694  |
|                        | 100                       | 18×45                      | 0.860                                    | 1.720  |
|                        | 100                       | 18×50                      | 0.910                                    | 1.820  |

# Mouser Electronics

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Электрон  
Связь**

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С нами вы становитесь еще успешнее!

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