

**LEX SERIES**
**Load Life: 125°C 4000~5000 hours**

\*For LED Lighting.


**◆SPECIFICATIONS**

| Items  | Characteristics  |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
|--|--|-----------------------------------|-----------------------------------|-----------------------------|--|-------------------------------|------------------------------------|---|------------------|-----------------|-------------------|------|------------------------|------|------------------|---|---|----|----|--|
| Category Temperature Range                     | -40~+125°C   |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| Rated Voltage Range                            | 160~400Vdc   |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| Capacitance Tolerance                          | ±20% (20°C, 120Hz)   |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| Leakage Current(MAX)                           | <table border="1"> <tr> <th>CV ≤ 1000</th> <th>CV &gt; 1000</th> </tr> <tr> <td>I = 0.1CV + 40µA (1 minute)</td> <td>I = 0.04CV + 100µA (1 minute)</td> </tr> <tr> <td>I = 0.03CV + 15µA (5 minutes)</td> <td>I = 0.02CV + 25µA (5 minutes)</td> </tr> </table>  | CV ≤ 1000                         | CV > 1000                         | I = 0.1CV + 40µA (1 minute) | I = 0.04CV + 100µA (1 minute)              | I = 0.03CV + 15µA (5 minutes) | I = 0.02CV + 25µA (5 minutes)      | I = Leakage Current (µA)<br>C = Capacitance (µF)<br>V = Rated Voltage (Vdc)   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
|  | CV ≤ 1000  | CV > 1000                         |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| I = 0.1CV + 40µA (1 minute)                    | I = 0.04CV + 100µA (1 minute)  |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| I = 0.03CV + 15µA (5 minutes)                  | I = 0.02CV + 25µA (5 minutes)  |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| Dissipation Factor(MAX) (tanδ)                 | <table border="1"> <tr> <th>Rated Voltage (Vdc)</th> <th>160</th> <th>200</th> <th>250</th> <th>400</th> <th>(20°C, 120Hz)</th> </tr> <tr> <td>tanδ</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> <td>0.24</td> <td></td> </tr> </table>  |                                   | Rated Voltage (Vdc)               | 160                         | 200  | 250                           | 400                                | (20°C, 120Hz)   | tanδ             | 0.24            | 0.24              | 0.24 | 0.24                   |      |                  |   |   |    |    |  |
| Rated Voltage (Vdc)                            | 160  | 200                               | 250                               | 400                         | (20°C, 120Hz)                              |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| tanδ   | 0.24   | 0.24                              | 0.24                              | 0.24                        |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| Endurance                                      | After applying rated voltage with rated ripple current for specified time at 125°C, the capacitors shall meet the following requirements.  |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
|  | <table border="1"> <tr> <th>Capacitance Change</th> <td>Within ±30% of the initial value.</td> </tr> <tr> <th>Dissipation Factor</th> <td>Not more than 300% of the specified value.</td> </tr> <tr> <th>Leakage Current</th> <td>Not more than the specified value.</td> </tr> </table>   | Capacitance Change                | Within ±30% of the initial value. | Dissipation Factor          | Not more than 300% of the specified value. | Leakage Current               | Not more than the specified value. | <table border="1"> <tr> <th>Case Size</th> <th>Life Time (hrs)</th> </tr> <tr> <td>6.3×11, 8×9, 10×9</td> <td>4000</td> </tr> <tr> <td>8×11.5, 10×12.5, 10×16</td> <td>5000</td> </tr> </table> | Case Size        | Life Time (hrs) | 6.3×11, 8×9, 10×9 | 4000 | 8×11.5, 10×12.5, 10×16 | 5000 |                  |   |   |    |    |  |
|  | Capacitance Change   | Within ±30% of the initial value. |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| Dissipation Factor                             | Not more than 300% of the specified value.   |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| Leakage Current                                | Not more than the specified value.   |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| Case Size                                      | Life Time (hrs)  |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| 6.3×11, 8×9, 10×9                              | 4000   |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| 8×11.5, 10×12.5, 10×16                         | 5000   |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
|  |  |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <tr> <th>Rated Voltage (Vdc)</th> <th>160</th> <th>200</th> <th>250</th> <th>400</th> <th>(120Hz)</th> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>8</td> <td>10</td> <td>12</td> <td></td> </tr> </table> |                                   | Rated Voltage (Vdc)               | 160                         | 200  | 250                           | 400                                | (120Hz)   | Z(-25°C)/Z(20°C) | 3               | 3                 | 6    | 6                      |      | Z(-40°C)/Z(20°C) | 8 | 8 | 10 | 12 |  |
|  | Rated Voltage (Vdc)  | 160                               | 200                               | 250                         | 400  | (120Hz)                       |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
|  | Z(-25°C)/Z(20°C)   | 3                                 | 3                                 | 6                           | 6  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
| Z(-40°C)/Z(20°C)                               | 8  | 8                                 | 10                                | 12                          |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
|  |  |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |
|  |  |                                   |                                   |                             |  |                               |                                    |   |                  |                 |                   |      |                        |      |                  |   |   |    |    |  |

**◆MULTIPLIER FOR RIPPLE CURRENT**

| Frequency (Hz) | 120      | 1k  | 10k | 100k ≤ |     |
|----------------|----------|-----|-----|--------|-----|
| Coefficient    | 1~5.6µF  | 1.0 | 1.6 | 1.8    | 2.0 |
|                | 6.8~18µF | 1.0 | 1.5 | 1.7    | 1.9 |
|                | 22~33µF  | 1.0 | 1.4 | 1.6    | 1.8 |

**◆OPTION**

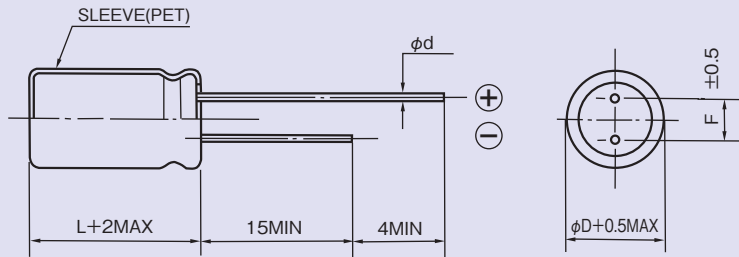
|            | Code |
|------------|------|
| PET Sleeve | EFC  |

**◆PART NUMBER**

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

◆ **DIMENSIONS**

(mm)



|          |     |     |    |
|----------|-----|-----|----|
| $\phi D$ | 6.3 | 8   | 10 |
| $\phi d$ | 0.5 | 0.6 |    |
| F        | 2.5 | 3.5 | 5  |

◆ **STANDARD SIZE**

| Rated Voltage (Vdc) | Capacitance ( $\mu F$ ) | Size $\phi D \times L$ (mm) | Rated Ripple Current (mA r.m.s., 125°C) |        |
|---------------------|-------------------------|-----------------------------|---|--------|
|                     |                         |                             | 120Hz                                   | 100kHz |
| 160                 | 5.6                     | 6.3×11                      | 52                                      | 104    |
|                     | 10                      | 8×9                         | 70                                      | 133    |
|                     | 15                      | 8×11.5                      | 92                                      | 174    |
|                     |                         | 10×9                        | 95                                      | 180    |
|                     | 22                      | 10×12.5                     | 121                                     | 217    |
|                     | 33                      | 10×16                       | 158                                     | 284    |
| 200                 | 2.2                     | 6.3×11                      | 36                                      | 72     |
|                     | 3.3                     | 6.3×11                      | 42                                      | 84     |
|                     | 4.7                     | 6.3×11                      | 49                                      | 98     |
|                     | 5.6                     | 8×9                         | 56                                      | 112    |
|                     | 6.8                     | 8×9                         | 62                                      | 117    |
|                     | 8.2                     | 8×9                         | 66                                      | 125    |
|                     | 10                      | 8×11.5                      | 80                                      | 152    |
|                     | 12                      | 10×9                        | 88                                      | 167    |
|                     | 18                      | 10×12.5                     | 113                                     | 214    |
|                     | 27                      | 10×16                       | 149                                     | 268    |

| Rated Voltage (Vdc) | Capacitance ( $\mu F$ ) | Size $\phi D \times L$ (mm) | Rated Ripple Current (mA r.m.s., 125°C) |        |
|---------------------|-------------------------|-----------------------------|---|--------|
|                     |                         |                             | 120Hz                                   | 100kHz |
| 250                 | 1.8                     | 6.3×11                      | 33                                      | 66     |
|                     | 2.2                     | 6.3×11                      | 36                                      | 72     |
|                     | 3.3                     | 6.3×11                      | 42                                      | 84     |
|                     | 4.7                     | 8×9                         | 53                                      | 106    |
|                     | 5.6                     | 8×11.5                      | 56                                      | 112    |
|                     | 6.8                     | 8×11.5                      | 68                                      | 129    |
|                     | 8.2                     | 10×9                        | 76                                      | 144    |
|                     | 10                      | 10×12.5                     | 83                                      | 157    |
|                     | 12                      | 10×12.5                     | 97                                      | 184    |
|                     | 18                      | 10×16                       | 127                                     | 241    |
| 400                 | 1                       | 6.3×11                      | 24                                      | 48     |
|                     | 1.2                     | 8×9                         | 28                                      | 56     |
|                     | 1.5                     | 8×9                         | 30                                      | 60     |
|                     | 1.8                     | 8×9                         | 33                                      | 66     |
|                     | 2.2                     | 8×9                         | 36                                      | 72     |
|                     |                         | 8×11.5                      | 40                                      | 80     |
|                     | 2.7                     | 8×11.5                      | 43                                      | 86     |
|                     | 3.3                     | 8×11.5                      | 47                                      | 94     |
|                     |                         | 10×9                        | 48                                      | 96     |
|                     | 3.9                     | 10×12.5                     | 57                                      | 114    |
|                     | 4.7                     | 10×12.5                     | 61                                      | 122    |
|                     | 6.8                     | 10×16                       | 85                                      | 161    |