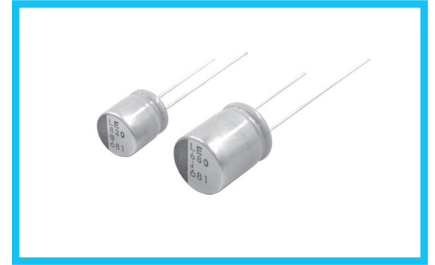


**PLE**

Radial Lead Type, Ultra-low ESR



- Ultra-low ESR, High ripple current.
- Load life of 2000 hours at 105°C.
- Radial lead type :  
Lead free flow soldering condition correspondence
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

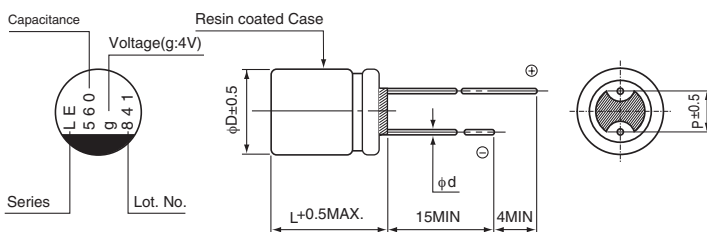


■ Specifications

| Item  | Performance Characteristics  |                       |  |
|---|--|-----------------------|--|
| Category Temperature Range                        | -55 to +105°C  |                       |  |
| Rated Voltage Range                               | 2.5 to 6.3V  |                       |  |
| Rated Capacitance Range                           | 470 to 1500μF  |                       |  |
| Capacitance Tolerance                             | ±20% at 120Hz, 20°C  |                       |  |
| Tangent of loss angle (tan δ)                     | Less than or equal to the specified value at 120Hz, 20°C   |                       |  |
| ESR (※ 1)   | Less than or equal to the specified value at 100kHz, 20°C  |                       |  |
| Leakage Current (※ 2)                             | Less than or equal to the specified value. After 2 minutes' application of rated voltage at 20°C   |                       |  |
| Temperature Characteristics (Max.Impedance Ratio) | Z+105°C / Z+20°C ≤ 1.25 (100kHz)<br>Z-55°C / Z+20°C ≤ 1.25   |                       |  |
| Endurance   | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C.   | Capacitance change    | Within ± 20% of the initial capacitance value (※3) |
|   |  | tan δ                 | 150% or less than the initial specified value      |
|   |  | ESR (※ 1)             | 150% or less than the initial specified value      |
|   |  | Leakage current (※ 2) | Less than or equal to the initial specified value  |
| Damp Heat (Steady State)                          | The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 60°C, 90% RH.  | Capacitance change    | Within ± 20% of the initial capacitance value (※3) |
|   |  | tan δ                 | 150% or less than the initial specified value      |
|   |  | ESR (※ 1)             | 150% or less than the initial specified value      |
|   |  | Leakage current (※ 2) | Less than or equal to the initial specified value  |
| Resistance to Soldering Heat                      | After soldering the capacitor under the soldering conditions prescribed here as preheat at 150 to 200°C for 60 to 180 seconds and peak temperature at 265°C for 10 seconds or less, the capacitor shall meet the specifications listed at right, provided that its temperature profile is measured at both of terminal ends facing the soldering side. | Capacitance change    | Within ± 10% of the initial capacitance value (※3) |
|   |  | tan δ                 | 130% or less than the initial specified value      |
|   |  | ESR (※ 1)             | 130% or less than the initial specified value      |
|   |  | Leakage current (※ 2) | Less than or equal to the initial specified value  |
| Marking   | Navy blue print on the case top  |                       |  |

- ※ 1 ESR should be measured at both of the terminal ends closest to the capacitor body.
- ※ 2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.
- ※ 3 Initial value : The value before test of examination of resistance to soldering.

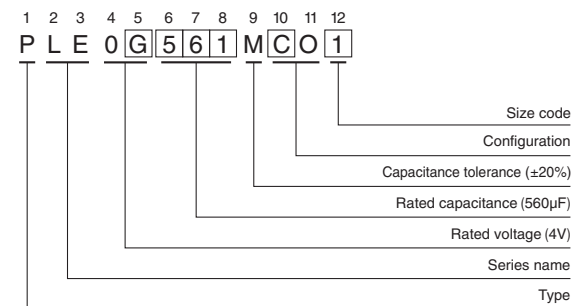
■ Dimensions



|      | (mm)    |          |           |
|------|---------|----------|-----------|
| Size | φ8 × 9L | φ8 × 12L | φ10 × 13L |
| φD   | 8.0     | 8.0      | 10.0      |
| L    | 8.5     | 11.5     | 12.5      |
| P    | 3.5     | 3.5      | 5.0       |
| φd   | 0.6     | 0.6      | 0.6       |

| Voltage |                 |
|---------|-----------------|
| V       | 2.5    4    6.3 |
| Code    | e    g    j     |

Type numbering system (Example : 4V 560μF)



● Frequency coefficient of rated ripple current

| Frequency   | 120Hz | 1kHz | 10kHz | 100kHz or more |
|-------------|-------|------|-------|----------------|
| Coefficient | 0.05  | 0.30 | 0.70  | 1.00           |

Please refer to page 20 about the end seal configuration.

● Dimension table in next page.

# PLE

■ Dimensions

| Rated Voltage (V) Code | Surge Voltage (V) | Rated Capacitance (μF) | Case Size φD × L (mm) | tan δ | Leakage Current (μA) | ESR (mΩ) (at 100kHz 20°C) | Rated Ripple (mArms) (105°C/100kHz) | Part Number  |
|------------------------|-------------------|------------------------|-----------------------|-------|----------------------|---------------------------|-------------------------------------|--------------|
| 2.5 (0E)               | 2.8               | 560                    | 8 × 9                 | 0.08  | 280                  | 5                         | 6100                                | PLE0E561MCO1 |
|                        |                   | 820                    | ▲ 8 × 9               | 0.08  | 410                  | 5                         | 6300                                | PLE0E821MCO6 |
|                        |                   | 820                    | 8 × 12                | 0.08  | 410                  | 5                         | 6600                                | PLE0E821MDO1 |
|                        |                   | 1000                   | 10 × 13               | 0.08  | 500                  | 5                         | 7100                                | PLE0E102MDO1 |
|                        |                   | 1500                   | 10 × 13               | 0.08  | 750                  | 5                         | 7300                                | PLE0E152MDO1 |
| 4 (0G)                 | 4.6               | 560                    | 8 × 9                 | 0.08  | 448                  | 5                         | 6000                                | PLE0G561MCO1 |
|                        |                   | 680                    | 8 × 12                | 0.08  | 544                  | 5                         | 6500                                | PLE0G681MDO1 |
|                        |                   | 820                    | 10 × 13               | 0.08  | 656                  | 5                         | 7000                                | PLE0G821MDO1 |
|                        |                   | 1200                   | 10 × 13               | 0.08  | 960                  | 5                         | 7200                                | PLE0G122MDO1 |
| 6.3 (0J)               | 7.2               | 470                    | 8 × 12                | 0.08  | 592                  | 5                         | 6400                                | PLE0J471MDO1 |
|                        |                   | 680                    | 10 × 13               | 0.08  | 857                  | 5                         | 6700                                | PLE0J681MDO1 |
|                        |                   | 820                    | 10 × 13               | 0.08  | 1033                 | 5                         | 6800                                | PLE0J821MDO1 |

Rated ripple current (mArms) at 105°C 100kHz

No marked, [1] will be put at 12th digit of type numbering system.  
 ▲ : In this case, [6] will be put at 12th digit of type numbering system.

- Please refer to page 20, 21, 22 about the formed or taped product spec.
- Please refer to page 3 for the minimum order quantity.

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