



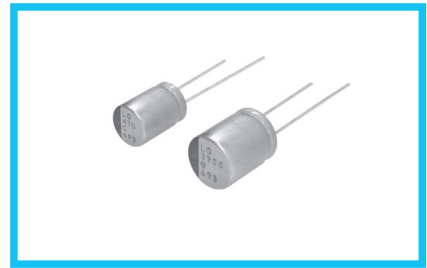
**THE DATASHEET OF
PLG1A122MDO1**



PLG Radial Lead Type, Higher Capacitance



- Higher Capacitance, 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).



PLG

Higher Capacitance
PLF

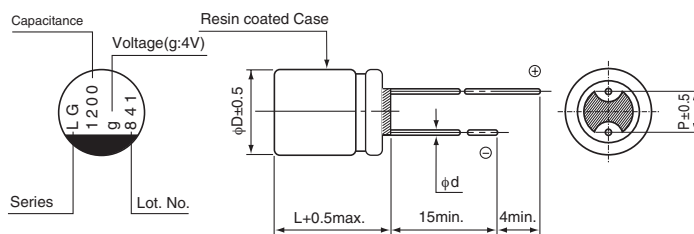
Products which are scheduled to be discontinued.
Not recommended for new designs.

Specifications

| Item | Performance Characteristics | | |
|---|--|-----------------------|---|
| Category Temperature Range | -55 to +105°C | | |
| Rated Voltage Range | 2.5 to 16V | | |
| Rated Capacitance Range | 330 to 3900μF | | |
| 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) | $Z(+105^{\circ}\text{C}) / Z(+20^{\circ}\text{C}) \leq 1.25$ (100kHz) $Z(-55^{\circ}\text{C}) / Z(+20^{\circ}\text{C}) \leq 1.25$ | | |
| 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.

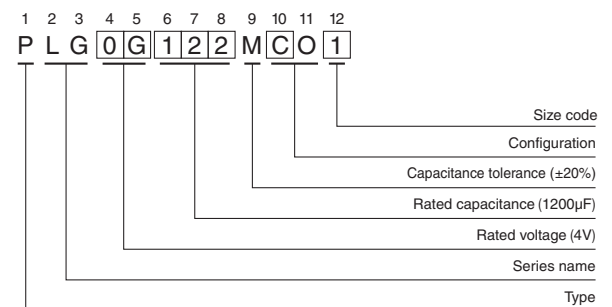
Dimensions



| | (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 | 2.5 | 4 | 6.3 | 10 | 16 |
|---------|-----|---|-----|----|----|
| Code | e | g | j | A | C |

Type numbering system (Example : 4V 1200μF)



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 the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

● Dimension table in next page.

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■ Dimensions

| Rated Voltage (V) Code | Surge Voltage (V) | Rated Capacitance (μF) | Case Size φD × L (mm) | tan δ | Leakage Current (μA) (at 20°C after 2 minutes) | ESR (mΩ) (20°C/100kHz) | Rated Ripple (mA _{rms}) (105°C/100kHz) | Part Number |
|------------------------|-------------------|------------------------|-----------------------|-------|--|------------------------|--|--------------|
| 2.5 (0E) | 2.8 | 1800 | 8 × 9 | 0.08 | 900 | 9 | 6000 | PLG0E182MCO1 |
| | | 2200 | 8 × 12 | 0.08 | 1100 | 8 | 6700 | PLG0E222MDO1 |
| | | 2700 | 10 × 13 | 0.08 | 1350 | 8 | 5560 | PLG0E272MDO1 |
| | | 3900 | 10 × 13 | 0.08 | 1950 | 8 | 7000 | PLG0E392MDO1 |
| 4 (0G) | 4.6 | 1200 | 8 × 9 | 0.08 | 960 | 9 | 5900 | PLG0G122MCO1 |
| | | 1800 | 8 × 12 | 0.08 | 1440 | 9 | 6500 | PLG0G182MDO1 |
| | | 2700 | 10 × 13 | 0.08 | 2160 | 8 | 6900 | PLG0G272MDO1 |
| 6.3 (0J) | 7.2 | 820 | 8 × 9 | 0.08 | 1033 | 9 | 5700 | PLG0J821MCO1 |
| | | 1200 | 8 × 12 | 0.08 | 1512 | 9 | 6100 | PLG0J122MDO1 |
| | | 1500 | 10 × 13 | 0.08 | 1890 | 9 | 6300 | PLG0J152MDO1 |
| | | 1800 | 10 × 13 | 0.08 | 2268 | 8 | 6600 | PLG0J182MDO1 |
| 10 (1A) | 11.5 | 560 | 8 × 9 | 0.08 | 1120 | 11 | 5100 | PLG1A561MCO1 |
| | | 820 | 8 × 12 | 0.08 | 1640 | 10 | 5800 | PLG1A821MDO1 |
| | | 1200 | 10 × 13 | 0.08 | 2400 | 9 | 6200 | PLG1A122MDO1 |
| 16 (1C) | 18.4 | 330 | 8 × 9 | 0.08 | 1056 | 13 | 4700 | PLG1C331MCO1 |
| | | 470 | 8 × 12 | 0.08 | 1504 | 11 | 5400 | PLG1C471MDO1 |
| | | 820 | 10 × 13 | 0.08 | 2624 | 11 | 5600 | PLG1C821MDO1 |

• For formed lead or taped product specifications and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

Looking for pricing, stock, or lifecycle information?

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 [Nichicon Information](#)

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