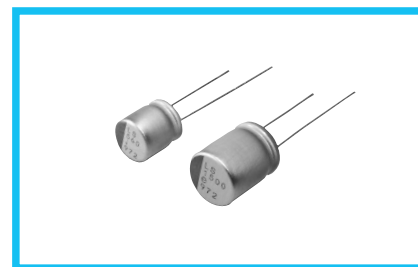


LS series Radial Lead Type, Long Life Assurance



- Ultra-low ESR, High ripple current.
- Load life of 5000 hours at 105°C.
- Radial lead type :
Lead free flow soldering condition correspondence.
- Compliant to the RoHS directive (2011/65/EU).



Specifications

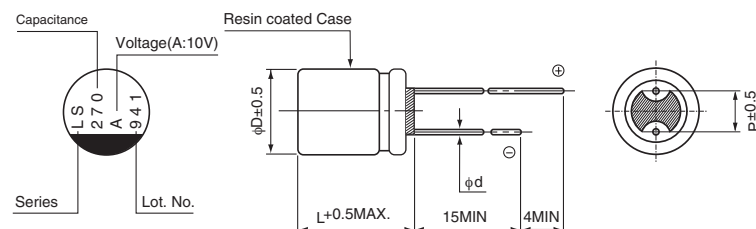
| Item | Performance Characteristics | | |
|---|--|-----------------------|---|
| Category Temperature Range | -55 to +105°C | | |
| Rated Voltage Range | 2.5 to 16V | | |
| Rated Capacitance Range | 100 to 1500µF | | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | | |
| Tangent of loss angle (tan 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) 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 5000 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.

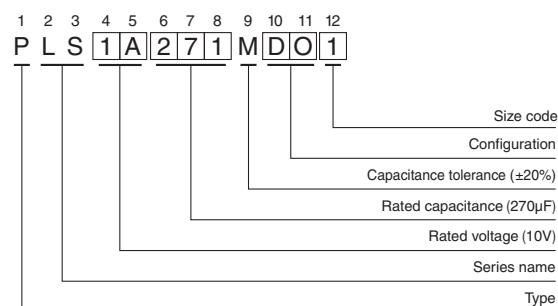
※ 2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

※ 3 Initial value : The value before test of examination of resistance to soldering.

Dimensions



Type numbering system (Example : 10V 270µF)



| | (mm) | | | | | |
|------|-----------|--------------|---------|---------|----------|-----------|
| Size | φ6.3 × 9L | φ6.3 × 10.5L | φ8 × 7L | φ8 × 9L | φ8 × 12L | φ10 × 13L |
| φD | 6.3 | 6.3 | 8.0 | 8.0 | 8.0 | 10.0 |
| L | 8.5 | 10.0 | 6.5 | 8.5 | 11.5 | 12.5 |
| P | 2.5 | 2.5 | 3.5 | 3.5 | 3.5 | 5.0 |
| φd | 0.6 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 |

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

Please refer to page 20 about the end seal configuration.

● Dimension table in next page.



Standard Ratings

| 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) | Part Number |
|------------------------|-------------------|------------------------|-----------------------|-------|----------------------|---------------------------|----------------------|--------------|
| 2.5 (0E) | 2.8 | 330 | ○ 6.3 × 9 | 0.08 | 500 | 8 | 4800 | PLS0E331MCO8 |
| | | 680 | △ 8 × 7 | 0.08 | 340 | 15 | 3900 | PLS0E681MCL2 |
| | | 820 | ○ 6.3 × 9 | 0.08 | 500 | 8 | 4800 | PLS0E821MCO8 |
| | | 820 | ▲ 8 × 9 | 0.08 | 410 | 7 | 5200 | PLS0E821MCO6 |
| | | 820 | 8 × 12 | 0.08 | 410 | 7 | 5800 | PLS0E821MDO1 |
| | | 1500 | 10 × 13 | 0.08 | 750 | 8 | 5500 | PLS0E152MDO1 |
| 4 (0G) | 4.6 | 270 | ○ 6.3 × 9 | 0.08 | 500 | 8 | 4800 | PLS0G271MCO8 |
| | | 560 | △ 8 × 7 | 0.08 | 448 | 15 | 3900 | PLS0G561MCL2 |
| | | 560 | ▲ 8 × 9 | 0.08 | 448 | 7 | 5200 | PLS0G561MCO6 |
| | | 680 | 8 × 12 | 0.08 | 544 | 7 | 5800 | PLS0G681MDO1 |
| | | 1200 | 10 × 13 | 0.08 | 960 | 8 | 5500 | PLS0G122MDO1 |
| 6.3 (0J) | 7.2 | 330 | ■ 6.3 × 10.5 | 0.08 | 416 | 20 | 3000 | PLS0J331MDL4 |
| | | 390 | △ 8 × 7 | 0.08 | 491 | 15 | 3900 | PLS0J391MCL2 |
| | | 470 | 8 × 12 | 0.08 | 592 | 7 | 5500 | PLS0J471MDO1 |
| | | 560 | ○ 6.3 × 9 | 0.08 | 706 | 9 | 4300 | PLS0J561MCO8 |
| | | 560 | ▲ 8 × 9 | 0.08 | 706 | 8 | 5000 | PLS0J561MCO6 |
| | | 820 | 10 × 13 | 0.08 | 1033 | 8 | 5500 | PLS0J821MDO1 |
| 10 (1A) | 11.5 | 150 | ■ 6.3 × 10.5 | 0.08 | 300 | 20 | 3000 | PLS1A151MDL4 |
| | | 270 | 8 × 12 | 0.08 | 540 | 8 | 4900 | PLS1A271MDO1 |
| | | 470 | 10 × 13 | 0.08 | 940 | 8 | 5500 | PLS1A471MDO1 |
| 16 (1C) | 18.4 | 100 | ■ 6.3 × 10.5 | 0.08 | 320 | 24 | 2800 | PLS1C101MDL4 |
| | | 270 | 8 × 12 | 0.08 | 864 | 9 | 4500 | PLS1C271MDO1 |
| | | 330 | 10 × 13 | 0.08 | 1056 | 9 | 4700 | PLS1C331MDO1 |
| | | 470 | 10 × 13 | 0.08 | 1504 | 9 | 4700 | PLS1C471MDO1 |

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

No marked, [1] will be put at 12th digit of type numbering system.
 △: In this case, [2] will be put at 12th digit of type numbering system.
 ■: In this case, [4] will be put at 12th digit of type numbering system.
 ▲: In this case, [6] will be put at 12th digit of type numbering system.
 ○: In this case, [8] 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.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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