

Using breakthrough technology,
we aim for products that will create new markets.

New Product News

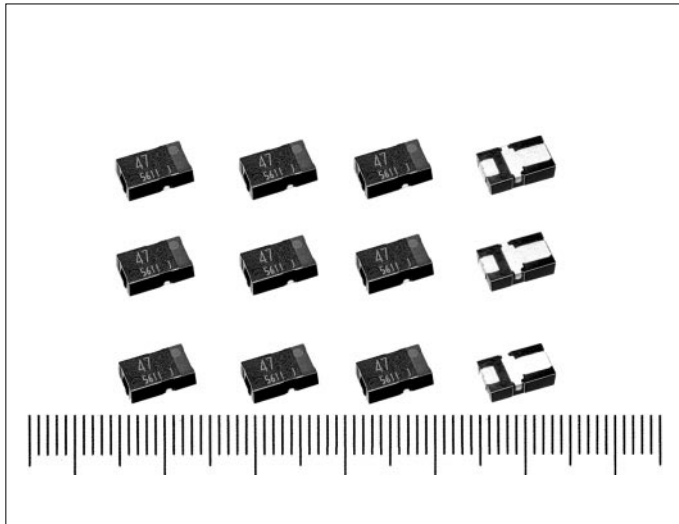
Wide range of products (Lower ESL)

Polymer Aluminum Capacitor

SP-Cap L series

Industry/Field: Audio-Visual appliances, Home electric appliances, Amusement

Noise reduction at high frequency & Stabilization of power supply



• Development Target:

Noise is the new issue for recent digitalization of Audio-Visual industry. We develop new capacitor which contributes both noise problem and stabilization of power supply .

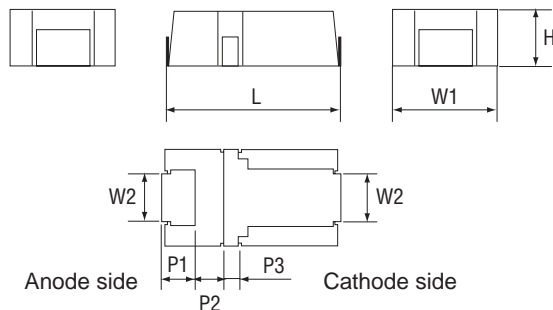
• Features:

- ① Low ESL: 600pH (Frequency: 500MHz)
(About half of our current product)
- ② Low ESR: 18mΩ
(Same level as our current product)
- ③ Large cap.: 6v 47μF to 2v 180μF

• Number of industrial property rights: 3

• Construction:

Dimensions in mm (not to scale)



| | | | | | | |
|-------|--------|--------|-------|--------|--------|--------|
| L±0.2 | W1±0.2 | W2±0.2 | H±0.1 | P1±0.3 | P2±0.2 | P3±0.2 |
| 7.3 | 4.3 | 2.0 | 1.9 | 1.3 | 1.1 | 0.7 |

• Characteristics/specifications:

| Item | Specifications | | | |
|------------------------------|--|-----------------------------------|---------------------|-----------------------|
| Category Temp.Range | -40 to +105°C | | | |
| Rated W.V.Range | 2 to 6.3 V.DC | | | |
| Nominal Cap.Range | 47μF to 180μF | | | |
| Capacitance Tolerance | ±20% (120 Hz/20°C) | | | |
| DC Leakage Current | I ≤ 0.1 CV (μA) 2 minutes | | | |
| tanδ | ≤ 0.06 (120 Hz/ +20°C) | | | |
| Endurance | After applying rated working voltage for 1000 hours at 105±2°C, and then being stabilized at +20°C, capacitor shall meet the following limits. | | | |
| | Capacitance change | ±10% of initial measured value | | |
| | tanδ | ≤ initial specified value | | |
| Moisture Resistance | After storing for 500 hours at 60°C, 90%R.H., and then being stabilized at +20°C, capacitor shall meet the following limits. | | | |
| | Capacitance change of initial measured value | 2 V.DC +70, -20% | 4 V.DC +60, -20% | 6.3 V.DC +50, -20% |
| | tanδ | ≤ 200% of initial specified value | | |
| Surge Voltage | DC leakage current ≤ initial specified value | | | |
| | Rated W.V.Range | 2 V.DC | 4 V.DC | 6.3 V.DC |
| | Surge Voltage | 2.5 | 5.0 | 8.0 |
| Resistance to Soldering Heat | After reflow soldering, and then being stabilized at +20°C, capacitor shall meet the following limits. | | | |
| | Capacitance change | ±10% of initial measured value | | |
| | tanδ | ≤ initial specified value | | |
| DC leakage current | ≤ initial specified value | | | |

• Applications/usage examples:

- Power line for digital signal processing LSI in digital TV

• Explanation of part numbers:

