# PB Series

## ■STANDARD RATINGS

| Rated voltage (V)(code) | Surge Voltage (V) | Rated Cpacitance (μF) | Case Size ΦD x L(mm) | tan δ | Leakage Current (μA) | ESR(mΩ) (at 100kHz 20℃) | Rated Ripple (mArms) | Part Number |
|---|---|---|---|---|---|---|---|---|
| 2.5 (0E) | 2.8 | 560 | 6.3x8 | 0.08 | 280 | 7 | 5900 | EPPB0E561M6308 |
| | | 820 | 6.3x8 | 0.08 | 410 | 7 | 5900 | EPPB0E821M6308 |
| | | 1000 | 6.3x8 | 0.08 | 500 | 7 | 5900 | EPPB0E102M6308 |
| | | 1500 | 8X8 | 0.08 | 750 | 7 | 6100 | EPPB0E152M0808 |
| 4 (0G) | 4.6 | 560 | 6.3x8 | 0.08 | 448 | 9 | 5900 | EPPB0G561M6308 |
| | | 680 | 6.3x8 | 0.08 | 544 | 9 | 5900 | EPPB0G681M6308 |
| | | 820 | 6.3x11 | 0.08 | 656 | 7 | 6150 | EPPB0G821M6311 |
| | | 1200 | 6.3x11 | 0.08 | 960 | 7 | 6150 | EPPB0G122M6311 |
| 6.3 (0J) | 7.2 | 470 | 6.3x8 | 0.08 | 592 | 9 | 5900 | EPPB0J471M6308 |
| | | 680 | 6.3x8 | 0.08 | 857 | 9 | 5900 | EPPB0J681M6308 |
| | | 820 | 6.3x11 | 0.08 | 1033 | 7 | 6150 | EPPB0J821M6311 |
| 10 (1A) | 11.5 | 270 | 6.3x8 | 0.08 | 540 | 10 | 4100 | EPPB1A271M6308 |
| | | 470 | 8X8 | 0.08 | 940 | 10 | 5600 | EPPB1A471M0808 |
| | | 560 | 8X8 | 0.08 | 1120 | 9 | 5600 | EPPB1A561M0808 |
| | | 680 | 8X11 | 0.08 | 1360 | 9 | 6100 | EPPB1A561M0811 |
| 16 (1C) | 18.4 | 270 | 8X8 | 0.08 | 864 | 10 | 5000 | EPPB1C271M0808 |
| | | 330 | 8X8 | 0.08 | 1056 | 10 | 5000 | EPPB1C331M0808 |
| | | 470 | 8X11 | 0.08 | 1504 | 10 | 5400 | EPPB1C471M0811 |
| | | 680 | 8X11 | 0.08 | 2176 | 10 | 5400 | EPPB1C681M0811 |

# ELCON

**Conductive Polymer Aluminum Solid Electrolytic Capacitors**

# PB

## Radial Lead Type,Ultra-low ESR Series


- Ultra-Low ESR, High ripple current.
- Load life of 2000 hours at 105℃.
- Radial lead type: lead free flow soldering condition correspondence.
- RoHS Compliance(2011/65/EU)

## ■SPECIFICATIONS

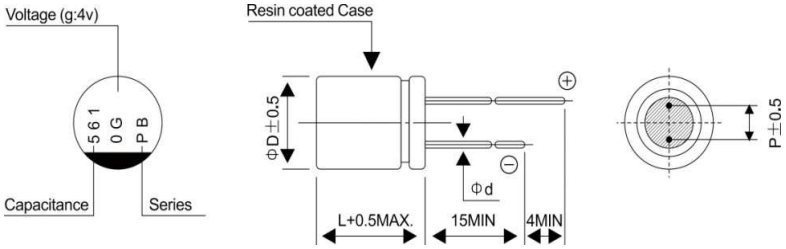
| Item | Performance Characteristics | | |
|---|---|---|---|
| Category Temperature Range | -55 ~ +105℃ | | |
| Rated Voltage Range | 2.5 ~ 16V | | |
| Rated Capacitance Range | 270 to 1500μF | | |
| Capacitance Tolerance | ± 20 % (at 120Hz , 20℃) | | |
| Tangent of loss angle (tan δ) | Less than or equal to the specified value at 120Hz, 20℃ | | |
| ESR(※1) | Less than or equal to the specified value at 100KHz, 20℃ | | |
| Leakage Current(※2) | Less than or equal to the specified value. After 2 minutes' application of rated voltage at 20℃ | | |
| Temperature Characteristics (Max. Impedance Ratio) | Z+105℃ / Z+20℃ ≤1.25 (100kHz)<br>Z- 55℃ / Z+20℃ ≤1.25 | | |
| Endurance | The specifications listed at right shall be met when the capacitors are restored to 20 ℃ after the rated voltage is applied for 2000 hours at 105 ℃ | 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 ℃ after the rated voltage is applied for 1000 hours at 60 ℃, 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℃ for 60 to 180 seconds and peak temperature at 265℃ 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 | Red 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 minuters at 105 ℃

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

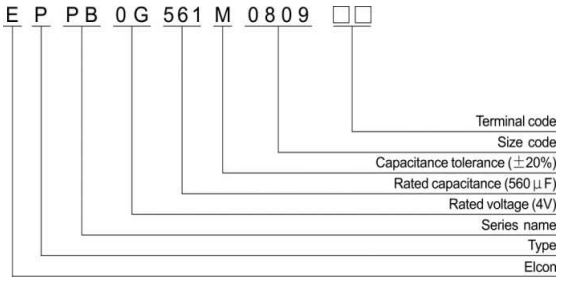
## ■ Dimensions




Φ x L(mm)

| Size | 6.3x8 | 6.3x11 | 8x8 | 8x11 |
|---|---|---|---|---|
| ΦD | 6.3 | 6.3 | 8.0 | 8 |
| L | 7.5 | 10.5 | 7.5 | 10.5 |
| P | 2.5 | 2.5 | 3.5 | 3.5 |
| Φd | 0.6 | 0.6 | 0.6 | 0.6 |

### Type numbering system(Exp:4V 560μF)




Voltage

| V | 2.5 | 4 | 6.3 | 10 | 16 |
|---|---|---|---|---|---|
| Code | 0E | 0G | 0J | 1A | 1C |