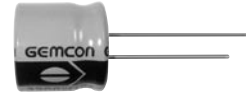


GSB Low Profile Sided 85°C Series

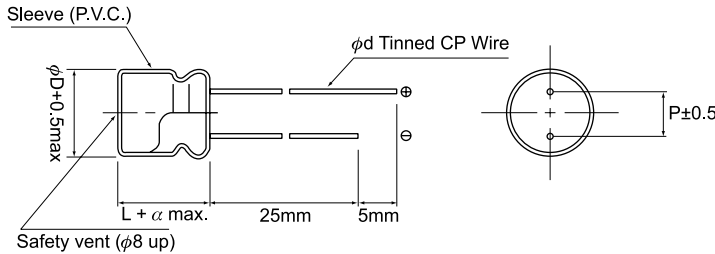
- Miniature sized for general-purpose application.
- Life guaranteed 2,000 hours/85°C



• Specifications

| Item | Performance Characteristics | | | | | | | | |
|--|---|---|------|------|------|------|------|------|------|
| Operating Temperature range | -40 + 85°C | | | | | | | | |
| Rated Voltage | 6.3V ~ 100V | | | | | | | | |
| Capacitance Range | 0.1 ~ 10,000 μF | | | | | | | | |
| Capacitance Tolerance | ±20% (120Hz, 20°C) | | | | | | | | |
| Leakage Current | I ≤ 0.01CV or 3 μA, whichever is greater after 2 minutes application of rated voltage. | | | | | | | | |
| Dissipation Factor (120Hz, 20°C) | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| | Tan δ (max.) | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 |
| For capacitance of more than 1,000μF, add 0.02 for every increase of 1,000μF | | | | | | | | | |
| Temperature Characteristics (120Hz) | Impedance Ratio / Stability at Low Temperature | | | | | | | | |
| | Rated voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 |
| | Z (-25°C) / Z (20°C) | 5 | 4 | 3 | 2 | 2 | 2 | 2 | 2 |
| | Z (-40°C) / Z (20°C) | 12 | 10 | 8 | 5 | 4 | 3 | 3 | 3 |
| Load Life | After 1,000 hours application of WV at 85°C, capacitor shall meet the characteristics requirements mentioned below. | | | | | | | | |
| | Capacitance change | Within ±20% of initial value | | | | | | | |
| | Tan δ | 200% or less of initial specified value | | | | | | | |
| | Leakage current | Initial specified value or less | | | | | | | |
| Shelf Life | At 85°C, no voltage applied for 1,000 hours, the capacitor shall meet the limits as in load life. | | | | | | | | |

• Dimension (mm)



| | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|------|
| Dφ | 5 | 6.3 | 8 | 10 | 13 | 16 | 18 | 20 |
| P | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 10.0 |
| φd | 0.5 | | 0.6 | | | 0.8 | | 1.0 |
| α | 1.5 | | | | | | | |

• Standard Products Table

| Cap (μF) | WV(SV) | Dφ x L (mm) | | | | | | | | | | | | | | | |
|----------|---------|-------------|---------|---------|---------|---------|---------|---------|-----------|---------|---------|---------|---------|--------|---------|-----------|--------|
| | | 6.3 (10) | 10 (13) | 16 (20) | 25 (32) | 35 (44) | 50 (63) | 63 (75) | 100 (125) | | | | | | | | |
| 0.1~0.47 | | | | | | | | 5 x 9 | | 5 x 9 | | | | | | | |
| 1 | | | | | | | | 5 x 9 | 13 | 5 x 9 | 21 | | | | | | |
| 2.2 | | | | | | | | 5 x 9 | 26 | 5 x 9 | 30 | | | | | | |
| 3.3 | | | | | | | | 5 x 9 | 35 | 5 x 9 | 40 | | | | | | |
| 4.7 | | | | | | | | 5 x 9 | 40 | 5 x 9 | 50 | | | | | | |
| 10 | | | | | | | | 5 x 9 | 65 | 5 x 9 | 70 | 6.3 x 9 | 80 | | | | |
| 22 | | | | | | | | 5 x 9 | 90 | 6.3 x 9 | 110 | 8 x 9 | 135 | | | | |
| 33 | | | | | | | | 5 x 9 | 100 | 6.3 x 9 | 120 | 6.3 x 9 | 135 | 10 x 9 | 170 | | |
| 47 | | | | | | | | 5 x 9 | 110 | 6.3 x 9 | 130 | 6.3 x 9 | 140 | 8 x 9 | 175 | 10 x 12 | 230 |
| 100 | | | 5 x 9 | 135 | 6.3 x 9 | 160 | 6.3 x 9 | 180 | 8 x 9 | 220 | 10 x 9 | 240 | 10 x 12 | 300 | 13 x 15 | 370 | |
| 220 | 6.3 x 9 | 200 | 6.3 x 9 | 220 | 8 x 9 | 290 | 10 x 9 | 310 | 10 x 9 | 340 | 10 x 12 | 420 | 13 x 13 | 470 | 16 x 15 | 620 | |
| 330 | 6.3 x 9 | 250 | 8 x 9 | 300 | 10 x 9 | 360 | 10 x 9 | 380 | 10 x 12 | 480 | 13 x 13 | 530 | 13 x 15 | 600 | 18 x 20 | 830 | |
| 470 | 8 x 9 | 330 | 8 x 9 | 360 | 10 x 9 | 410 | 10 x 12 | 530 | 13 x 13 | 590 | 16 x 15 | 750 | 18 x 15 | 840 | 18 x 25 | 1080 | |
| 1000 | 10 x 9 | 510 | 10 x 12 | 620 | 13 x 13 | 720 | 13 x 15 | 830 | 16 x 15 | 1010 | 18 x 20 | 1160 | 18 x 25 | 1410 | | | |
| 2200 | 13 x 15 | 890 | 13 x 15 | 960 | 16 x 15 | 1160 | 18 x 15 | 1360 | 18 x 20 | 1560 | 20 x 25 | 1750 | | | | | |
| 3300 | 16 x 15 | 1200 | 16 x 15 | 1300 | 18 x 15 | 1460 | 18 x 20 | 1720 | 20 x 25 | 2000 | | | | | | | |
| 4700 | 16 x 15 | 1410 | 18 x 15 | 1550 | 18 x 20 | 1770 | 18 x 25 | 2050 | | | | | | | | | |
| 6800 | 18 x 15 | 1660 | 18 x 20 | 1850 | 18 x 25 | 2170 | | | | | | | | | | | |
| 10000 | 18 x 20 | 2020 | 18 x 25 | 2350 | | | | | | | | | | | | Case Size | Ripple |

Ripple current (mA) at 85°C 120Hz