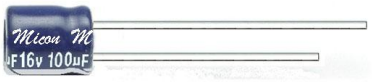
# SRB Series

## Features

- Non-polarized with 7mm height for crossover network of high-pitched, Mean and low-pitched sounds in high-frequency sound systems.
- The series offers excellent frequency characteristics and minimal Capacitance deviation with frequency.
- For detail specifications,please refer to Engineering Bulletin NO.E145
- RoHS Compliant




## Specifications

| Item | Performance Characteristics |
|---|---|
| Operating Temperature Range | -40~+105℃ |
| Rate Voltage Range | 6.3~50 VDC |
| Capacitance Range | 0.1~100UF |
| Capacitance Tolerance | ±20%（120Hz，+20℃） |
| Leakage current （+20℃,max.） | I≤0.005 CV or 10 (μA)<br>After 2 minute, whichever is greater measured with rated working voltage applied. |
| Dissipation factor （tgδ） | Working Voltage(VDC): 6.3 / 10 / 16 / 25 / 35 / 50<br>D.F(%)max: 24 / 20 / 16 / 16 / 14 / 12 |
| Low Temperature Characteristics （120Hz） | Impedance ratio max.<br>Working Voltage(VDC): 6.3 / 10 / 16 / 25 / 35 / 50<br>Z-25℃/ Z+20℃: 4 / 3 / 2 / 2 / 2 / 2<br>Z-40℃/ Z+20℃: 8 / 6 / 4 / 4 / 3 / 3 |
| Load Life | Test conditions<br>Duration time :1000Hrs<br>Ambient temperature : +105℃<br>Applied voltage : Rated DC working voltage to each polarity for 500Hrs<br>After test requirement at +20℃<br>Capacitance change : ≤±20% of the initial measured value<br>Dissipation factor : ≤200% of the initial specified value<br>Leakage current : ≤The initial specified value |
| Shelf Life | Test conditions<br>Duration time : 1000Hrs<br>Ambient temperature : +105℃<br>Applied voltage : None<br>After test requirement at +20℃ : Same limits as Load life<br>Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes |

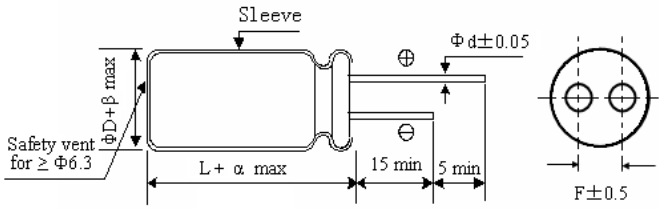
## Multiplier for Ripple Current vs. Frequency

| CAP(UF)\Frequency(HZ) | 50(60) | 120 | 400 | 1K | 10K | 50k-100k |
|---|---|---|---|---|---|---|
| CAP ≤ 10 | 0.8 | 1 | 1.30 | 1.45 | 1.65 | 1.70 |
| 10<CAP≤ 100 | 0.8 | 1 | 1.23 | 1.36 | 1.48 | 1.53 |
| 100<CAP≤1000 | 0.8 | 1 | 1.16 | 1.25 | 1.35 | 1.38 |

# SRB Series

## Diagram of Dimensions

Unit: mm




| ΦD | 4 | 5 | 6.3 | 8 |
|---|---|---|---|---|
| F | 1.5±0.5 | 2.0±0.5 | 2.5±0.5 | 3.5±0.5 |
| Φd | 0.45 | | 0.50 | |

## Case Size

ΦD×L

| Voltage | 6.3V | | 10V | | 16V | |
|---|---|---|---|---|---|---|
| Cap(μF) | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 0.1 | | | | | | |
| 0.22 | | | | | | |
| 0.33 | | | | | | |
| 0.47 | | | | | | |
| 1.0 | | | | | | |
| 2.2 | | | | | | |
| 3.3 | | | | | | |
| 4.7 | | | | | 4×7 | 18 |
| 10 | 4×7 | 23 | 4×7 | 24 | 5×7 | 30 |
| 22 | 5×7 | 30 | 5×7 | 38 | 6.3×7 | 51 |
| 33 | 5×7 | 40 | 6.3×7 | 52 | 6.3×7 | 58 |
| 47 | 6.3×7 | 56 | 8×7 | 65 | 8×7 | 73 |
| 100 | 8×7 | 92 | 8×7 | 105 | 8×7 | 120 |

| Voltage | 25V | | 35V | | 50V | |
|---|---|---|---|---|---|---|
| Cap(μF) | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 0.1 | | | | | 4×7 | 1.0 |
| 0.22 | | | | | 4×7 | 2.3 |
| 0.33 | | | | | 4×7 | 3.5 |
| 0.47 | | | | | 4×7 | 5.0 |
| 1.0 | | | | | 4×7 | 10 |
| 2.2 | | | 4×7 | 13 | 5×7 | 16 |
| 3.3 | 4×7 | 14 | 5×7 | 18 | 5×7 | 20 |
| 4.7 | 5×7 | 19 | 5×7 | 22 | 6.3×7 | 27 |
| 10 | 6.3×7 | 35 | 6.3×7 | 37 | 8×7 | 44 |
| 22 | 6.3×7 | 53 | 8×7 | 58 | | |
| 33 | 8×7 | 70 | 8×7 | 70 | | |
| 47 | 8×7 | 80 | | | | |
| 100 | | | | | | |

Ripple Current ( mA,rms) at 105℃ 120KHz