

**SXB/SXE SERIES**
**SLE/SZE SERIES**
**◆FEATURES**

SXB:Standard

SXE:Low ESR

SLE:Low Profile,Low ESR

SZE:Low Profile,Ultra Low ESR

•RoHS Compliance

•Lead free reflow soldering is available(260°C,10sec):(Available for MSL3)


**◆SPECIFICATIONS**

| Series                                                               |      | SXB                                  | SXE    | SLE    | SZE                                  |
|----------------------------------------------------------------------|------|--------------------------------------|--------|--------|--------------------------------------|
|                                                                      |      | 1.9mm                                |        | 1.4mm  |                                      |
| Temperature Range(°C)                                                |      | −55~+105°C                           |        |        |                                      |
| Rated Voltage Range(V.DC)                                            |      | 2~10                                 | 2~6.3  | 2~6.3  | 2, 2.5                               |
| Capacitance Range(μF)                                                |      | 22~220                               | 33~220 | 47~100 | 100~150                              |
| Capacitance Tolerance(20°C , 120Hz)                                  |      | ±20%                                 |        |        |                                      |
| Leakage Current(μA/after 5 minutes)                                  |      | ≤0.04CV                              |        |        |                                      |
| Dissipation Factor(20°C , 120Hz) (tanδ)                              |      | ≤0.1                                 |        |        |                                      |
| Equivalent Series Resistance(ESR)<br>(mΩ/20°C , 100kHz)              |      | 13~30                                | 7~9    | 9      | 5                                    |
| Maximum Allowable Ripple Current(mA r.m.s/100kHz)                    |      | 1,600~<br>3,000                      | 3,000  | 3,000  | 3,000                                |
| Surge Voltage                                                        |      | Rated voltage ×1.25                  |        |        |                                      |
| Endurance<br>(105°C, 2000hrs, Rated Voltage applied)                 | ΔC   | Within ±20% of the initial value     |        |        |                                      |
|                                                                      | tanδ | ≤200% of initial specified value     |        |        |                                      |
|                                                                      | LC   | ≤initial specified value             |        |        |                                      |
| Damp heat(Steady state)<br>(60°C, 90%RH, 500hrs, No-applied voltage) | ΔC   | Within −20~+40% of the initial value |        |        | Within −20~+60% of the initial value |
|                                                                      | tanδ | ≤200% of initial specified value     |        |        |                                      |
|                                                                      | LC   | ≤300% of initial specified value     |        |        |                                      |

**◆STANDARD SIZE**

| Series | WV(V.DC) | Cap( $\mu$ F) | Size(mm) |     |     | ESR(m $\Omega$ ) | (mAr.m.s) | Part No.      |
|--------|----------|---------------|----------|-----|-----|------------------|-----------|---------------|
|        |          |               | L        | W   | H   |                  |           |               |
| SXB    | 2(d)     | 100           | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 2SXB100M      |
|        |          | 150           | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 2SXB150M      |
|        |          | 220           | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 2SXB220M      |
|        | 2.5(e)   | 82            | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 2.5SXB82M     |
|        |          | 100           | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 2.5SXB100M    |
|        |          | 120           | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 2.5SXB120M    |
|        |          | 150           | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 2.5SXB150M    |
|        |          | 180           | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 2.5SXB180M    |
|        |          | 220           | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 2.5SXB220M    |
|        | 4(g)     | 68            | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 4SXB68M       |
|        |          | 100           | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 4SXB100M      |
|        |          | 150           | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 4SXB150M      |
|        | 6.3(j)   | 22            | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 6SXB22M       |
|        |          | 33            | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 6SXB33M       |
|        |          | 47            | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 6SXB47M       |
|        |          | 68            | 7.3      | 4.3 | 1.9 | 13               | 3,000     | 6SXB68M       |
|        |          | 100           | 7.3      | 4.3 | 1.9 | 18               | 3,000     | 6SXB100M      |
|        | 8(k)     | 33            | 7.3      | 4.3 | 1.9 | 18               | 2,500     | 8SXB33M       |
|        |          | 47            | 7.3      | 4.3 | 1.9 | 18               | 2,500     | 8SXB47M       |
|        | 10(A)    | 22            | 7.3      | 4.3 | 1.9 | 30               | 1,600     | 10SXB22M      |
| SXE    | 2(d)     | 100           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 2SXE100M      |
|        |          | 150           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 2SXE150M      |
|        |          | 180           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 2SXE180M      |
|        |          | 220           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 2SXE220M      |
|        |          | 220           | 7.3      | 4.3 | 1.9 | 7                | 3,000     | 2SXE220MR07   |
|        | 2.5(e)   | 82            | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 2.5SXE82M     |
|        |          | 100           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 2.5SXE100M    |
|        |          | 120           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 2.5SXE120M    |
|        |          | 150           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 2.5SXE150M    |
|        |          | 180           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 2.5SXE180M    |
|        |          | 220           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 2.5SXE220M    |
|        |          | 220           | 7.3      | 4.3 | 1.9 | 7                | 3,000     | 2.5SXE220MR07 |
|        | 4(g)     | 68            | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 4SXE68M       |
|        |          | 82            | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 4SXE82M       |
|        |          | 100           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 4SXE100M      |
|        |          | 120           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 4SXE120M      |
|        |          | 150           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 4SXE150M      |
|        | 6.3(j)   | 33            | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 6SXE33M       |
|        |          | 47            | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 6SXE47M       |
|        |          | 68            | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 6SXE68M       |
|        |          | 82            | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 6SXE82M       |
|        |          | 100           | 7.3      | 4.3 | 1.9 | 9                | 3,000     | 6SXE100M      |
| SLE    | 2(d)     | 100           | 7.3      | 4.3 | 1.4 | 9                | 3,000     | 2SLE100M      |
|        | 2.5(e)   | 82            | 7.3      | 4.3 | 1.4 | 9                | 3,000     | 2.5SLE82M     |
|        | 4(g)     | 68            | 7.3      | 4.3 | 1.4 | 9                | 3,000     | 4SLE68M       |
|        | 6.3(j)   | 47            | 7.3      | 4.3 | 1.4 | 9                | 3,000     | 6SLE47M       |
| SZE    | 2(d)     | 100           | 7.3      | 4.3 | 1.4 | 5                | 3,000     | 2SZE100M      |
|        |          | 150           | 7.3      | 4.3 | 1.4 | 5                | 3,000     | 2SZE150M      |
|        | 2.5(e)   | 100           | 7.3      | 4.3 | 1.4 | 5                | 3,000     | 2.5SZE100M    |
|        |          | 120           | 7.3      | 4.3 | 1.4 | 5                | 3,000     | 2.5SZE120M    |