

Jamicon Series : SB

Teapo Series : SB Low leakage current Series

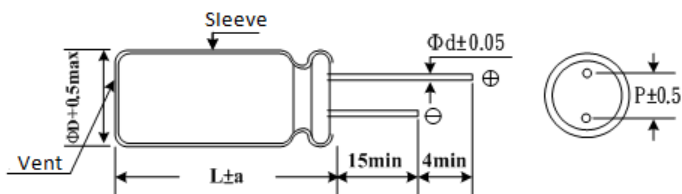


- Endurance : 105°C 2000 hours
- Recommended Applications :in where low leakage current is essential as in coupling of pre-amplifies
Remaining of very low leakage current even after prolonged storage
- Corresponding product to RoHS

SPECIFICATIONS

| Item | Characteristics | | | | | | | | | |
|---|---|---------------------------------------|------|------|------|------|------|------|------|------|
| Category Temperature Range | -40 ~ +105°C | | | | | | | | | |
| Rated Voltage Range | 6.3 ~ 100VDC | | | | | | | | | |
| Rated Capacitance Range | 1 ~ 15000 µF | | | | | | | | | |
| Capacitance Tolerance | ± 20 % (120Hz , 20°C) | | | | | | | | | |
| Leakage Current (20°C) | I ≤ 0.002CV or 1.0 µA whichever is greater. (After rated voltage applied for 2 minutes) I : Max. leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (V) | | | | | | | | | |
| Dissipation Factor(MAX) (tan δ) (120Hz ,20°C) | WV | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 |
| | tan δ | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.10 | 0.10 |
| When nominal capacitance is over 1000 µF, tan δ shall be added 0.02 to the listed value with increase of every 1000 µF. | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio (MAX) | WV | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 80 | 100 |
| | Z(120Hz) | | | | | | | | | |
| | Z(-25°C)/Z(+20°C) | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 1.5 | 1.5 |
| | Z(-40°C)/Z(+20°C) | 8 | 6 | 4 | 4 | 3 | 3 | 3 | 2 | 2 |
| Endurance | After applying rated voltage with rated ripple current for 2000hours at 105°C, the capacitors shall meet the following requirements. | | | | | | | | | |
| | Capacitance change | Within ± 25% of initial value | | | | | | | | |
| | D.F. (tan δ) | Not more than 200% of specified value | | | | | | | | |
| | Leakage current | Not more than the specified value | | | | | | | | |
| Shelf Life | After 500 hrs at 105°C without applying rated voltage the capacitors shall meet the following requirements. | | | | | | | | | |
| | Capacitance change | Within ± 25% of initial value | | | | | | | | |
| | D.F. (tan δ) | Not more than 200% of specified value | | | | | | | | |
| | Leakage current | Not more than 200% of specified value | | | | | | | | |

Dimensions [mm]



| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| φ D | 5 | 6.3 | 8 | 10 | 13 | 16 | 18 | 22 |
| P | 2 | 2.5 | 3.5 | 5 | 5 | 7.5 | 7.5 | 10 |
| φ d | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 1.0 |
| a | 1.5 | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 | 2.0 |

Multiplier for Ripple Current

| | | | | | |
|------------|------|------|------|------|------|
| Freq. (Hz) | 50 | 120 | 300 | 1K | 10K |
| 6.3 ~ 25 V | 0.85 | 1.00 | 1.04 | 1.08 | 1.19 |
| 35 ~ 50 V | 0.80 | 1.00 | 1.30 | 1.40 | 1.43 |
| 63 ~ 100 V | 0.77 | 1.00 | 1.34 | 1.43 | 1.48 |

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■ STANDARD RATINGS

| Rated Voltage (SurageVoltage) (V) | Cap (μ F) | Case size Φ D \times L(mm) | tan δ | Ripple current (mA/rms105°C) (120Hz) | Rated Voltage (SurageVoltage) (V) | Cap (μ F) | Case size Φ D \times L(mm) | tan δ | Ripple current (mA/rms105°C) (120Hz) |
|---|-------------------|--------------------------------------|--------------|--|---|-------------------|--------------------------------------|--------------|--|
| 6.3V (8) | 33 | 5x11 | 0.28 | 55 | 25V (32) | 4700 | 18x36 | 0.22 | 2380 |
| | 47 | 5x11 | 0.28 | 65 | | 6800 | 18x40 | 0.24 | 2770 |
| | 100 | 5x11 | 0.28 | 95 | 35V (44) | 10 | 5x11 | 0.14 | 45 |
| | 220 | 6.3x11 | 0.28 | 165 | | 22 | 5x11 | 0.14 | 65 |
| | 330 | 6.3x11 | 0.28 | 195 | | 33 | 5x11 | 0.14 | 80 |
| | 470 | 8x11 | 0.28 | 270 | | 47 | 6.3x11 | 0.14 | 110 |
| | 1000 | 10x12.5 | 0.28 | 465 | | 100 | 8x11 | 0.14 | 180 |
| | 2200 | 13x20 | 0.30 | 925 | | 220 | 10x12.5 | 0.14 | 320 |
| | 3300 | 13x20 | 0.32 | 1100 | | 330 | 10x17 | 0.14 | 450 |
| | 4700 | 16x26 | 0.34 | 1600 | | 470 | 10x20 | 0.14 | 570 |
| | 6800 | 16x26 | 0.38 | 1810 | | 1000 | 13x25 | 0.14 | 1060 |
| | 10000 | 16x32 | 0.46 | 2210 | | 2200 | 16x32 | 0.16 | 1700 |
| 15000 | 18x36 | 0.56 | 2760 | 3300 | | 18x36 | 0.18 | 2200 | |
| 10V (13) | 22 | 5x11 | 0.24 | 50 | | 4700 | 18x40 | 0.20 | 2610 |
| | 33 | 5x11 | 0.24 | 60 | 50V (63) | 10 | 5x11 | 0.12 | 55 |
| | 47 | 5x11 | 0.24 | 75 | | 22 | 5x11 | 0.12 | 75 |
| | 100 | 5x11 | 0.24 | 110 | | 33 | 6.3x11 | 0.12 | 100 |
| | 220 | 6.3x11 | 0.24 | 180 | | 47 | 6.3x11 | 0.12 | 120 |
| | 330 | 8x11 | 0.24 | 250 | | 100 | 8x11 | 0.12 | 200 |
| | 470 | 8x11 | 0.24 | 300 | | 220 | 10x17 | 0.12 | 400 |
| | 1000 | 10x17 | 0.24 | 600 | | 330 | 10x20 | 0.12 | 520 |
| | 2200 | 13x20 | 0.26 | 1000 | | 470 | 13x20 | 0.12 | 730 |
| | 3300 | 13x25 | 0.28 | 1300 | | 1000 | 16x26 | 0.12 | 1330 |
| | 4700 | 16x26 | 0.30 | 1700 | | 2200 | 18x36 | 0.14 | 2100 |
| | 6800 | 16x32 | 0.34 | 2100 | | 63V (79) | 10 | 5x11 | 0.10 |
| 10000 | 18x36 | 0.42 | 2630 | 22 | | | 6.3x11 | 0.10 | 80 |
| 16V (20) | 10 | 5x11 | 0.20 | 40 | 33 | | 6.3x11 | 0.10 | 100 |
| | 22 | 5x11 | 0.20 | 55 | 47 | | 8x11 | 0.10 | 140 |
| | 33 | 5x11 | 0.20 | 70 | 100 | | 10x12.5 | 0.10 | 230 |
| | 47 | 5x11 | 0.20 | 85 | 220 | | 10x20 | 0.10 | 430 |
| | 100 | 6.3x11 | 0.20 | 140 | 330 | | 13x20 | 0.10 | 610 |
| | 220 | 8x11 | 0.20 | 230 | 470 | 13x25 | 0.10 | 800 | |
| | 330 | 8x11 | 0.20 | 280 | 1000 | 16x32 | 0.10 | 1460 | |
| | 470 | 10x12.5 | 0.20 | 400 | 80V (100) | 10 | 6.3x11 | 0.10 | 60 |
| | 1000 | 10x17 | 0.20 | 660 | | 22 | 8x11 | 0.10 | 110 |
| | 2200 | 13x25 | 0.22 | 1210 | | 33 | 8x11 | 0.10 | 130 |
| | 3300 | 16x26 | 0.24 | 1610 | | 47 | 10x12.5 | 0.10 | 180 |
| | 4700 | 16x32 | 0.26 | 2020 | | 100 | 10x17 | 0.10 | 310 |
| 6800 | 18x36 | 0.30 | 2520 | 220 | | 13x20 | 0.10 | 560 | |
| 10000 | 18x40 | 0.38 | 2910 | 330 | | 13x25 | 0.10 | 750 | |
| 25V (32) | 10 | 5x11 | 0.16 | 40 | 470 | 16x26 | 0.10 | 1020 | |
| | 22 | 5x11 | 0.16 | 60 | 1000 | 18x36 | 0.10 | 1830 | |
| | 33 | 5x11 | 0.16 | 75 | 100V (125) | 10 | 6.3x11 | 0.10 | 65 |
| | 47 | 5x11 | 0.16 | 90 | | 22 | 8x11 | 0.10 | 115 |
| | 100 | 6.3x11 | 0.16 | 140 | | 33 | 10x12.5 | 0.10 | 160 |
| | 220 | 8x11 | 0.16 | 250 | | 47 | 10x17 | 0.10 | 230 |
| | 330 | 10x12.5 | 0.16 | 360 | | 100 | 13x20 | 0.10 | 410 |
| | 470 | 10x17 | 0.16 | 490 | | 220 | 16x26 | 0.10 | 750 |
| | 1000 | 13x20 | 0.16 | 880 | | 330 | 16x26 | 0.10 | 920 |
| | 2200 | 16x26 | 0.18 | 1550 | 470 | 16x32 | 0.10 | 1200 | |
| | 3300 | 16x32 | 0.20 | 1860 | | | | | |