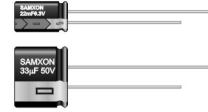


**+105°C, High Ripple Current(高紋波), Ultra Low Impedance(極低阻抗品)**

**FEATURES**

1. Ultra low impedance at 100KHz.
2. Enabled high ripple current by a reduction of ESR at high frequency range.
3. Load life : 105°C 2000 hours.
4. Suitable for P4 mother board.



**SPECIFICATIONS**

| Item                                                                                                                 | Performance Characteristics                                                                                                     |                                           |      |      |  |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------|------|--|
| Operating Temperature Range                                                                                          | -25 to +105°C                                                                                                                   |                                           |      |      |  |
| Rated Working Voltage Range                                                                                          | 6.3 to 16V DC                                                                                                                   |                                           |      |      |  |
| Capacitance Tolerance                                                                                                | ±20% (120Hz, +20°C)                                                                                                             |                                           |      |      |  |
| Leakage Current                                                                                                      | I = 0.03CV (after 2 minutes)<br>I = Leakage Current (μA)      C = Nominal Capacitance (μF)      V = Rated Voltage (V)           |                                           |      |      |  |
| Dissipation Factor<br>tan δ (120Hz, +20°C)                                                                           | Working Voltage (V)                                                                                                             | 6.3                                       | 10   | 16   |  |
|                                                                                                                      | tan δ (max.)                                                                                                                    | 0.22                                      | 0.19 | 0.16 |  |
| When nominal capacitance is over 1000μF, tan δ shall be added 0.02 to the listed value increase with of every 1000μF |                                                                                                                                 |                                           |      |      |  |
| Load Life                                                                                                            | After applying rated voltage with max ripple current for 2000hrs at 105°C, the capacitors shall meet the following requirements |                                           |      |      |  |
|                                                                                                                      | Capacitance Change                                                                                                              | Within ±30% of the initial value          |      |      |  |
|                                                                                                                      | Dissipation Factor                                                                                                              | Not more than 200% of the specified value |      |      |  |
|                                                                                                                      | Leakage Current                                                                                                                 | Not more than the specified value         |      |      |  |
| Low Temperature Stability<br>Impedance Rate                                                                          | Impedance ratio max. at 120Hz                                                                                                   |                                           |      |      |  |
|                                                                                                                      | Rated Voltage (V)                                                                                                               | 6.3                                       | 10   | 16   |  |
|                                                                                                                      | Z-25°C / Z+20°C                                                                                                                 | 3                                         | 3    | 3    |  |
| Others                                                                                                               | JIS C - 5101 (IEC 60384)                                                                                                        |                                           |      |      |  |

**CASE SIZE TABLE**

Unit : mm

| φD | 8(L < 20) | 8(L ≥ 20) | 10           | 12.5 | 16           |  |  |
|----|-----------|-----------|--------------|------|--------------|--|--|
| F  | 3.5       |           | 5.0          | 5.0  | 7.5          |  |  |
| φd | 0.5       |           | 0.6          |      | 0.8          |  |  |
| α  |           |           | (L < 20) 1.5 |      | (L ≥ 20) 2.0 |  |  |
| β  |           |           | (D < 20) 0.5 |      | (D ≥ 20) 1.0 |  |  |

**RIPPLE CURRENT MULTIPLIER**

| Temperature Coefficient |      |      |      | Frequency Coefficient |           |            |      |      |      |
|-------------------------|------|------|------|-----------------------|-----------|------------|------|------|------|
| Temperature(°C)         | ≤65  | 85   | 105  | Cap(μF)               | Freq.(Hz) | 120        | 1K   | 10K  | 100K |
| Factor                  | 2.10 | 1.70 | 1.00 |                       |           | 330 ~ 8200 | 0.50 | 0.80 | 0.90 |

**+105°C, High Ripple Current(高紋波), Ultra Low Impedance(極低阻抗品)**

**DIMENSIONS**

| Voltage (Code) |      | 6.3V (0J) |           |                | 10V (1A)  |           |                | 16V (1C)  |           |                |
|----------------|------|-----------|-----------|----------------|-----------|-----------|----------------|-----------|-----------|----------------|
| Cap.(μF)       | Code | Case Size | Impedance | Ripple Current | Case Size | Impedance | Ripple Current | Case Size | Impedance | Ripple Current |
| 330            | 337  |           |           |                |           |           |                | 8 x 12    | 21        | 1300           |
| 470            | 477  |           |           |                | 8 x 12    | 21        | 1300           | 8 x 12    | 21        | 1300           |
| 560            | 567  | 8 x 12    | 21        | 1300           |           |           |                | 10 x 12.5 | 18        | 1760           |
| 680            | 687  |           |           |                | 8 x 12    | 21        | 1300           | 10 x 12.5 | 18        | 1760           |
|                |      |           |           |                | 10 x 12.5 | 18        | 1760           | 8 x 20    | 12        | 2220           |
|                |      |           |           |                |           |           |                | 10 x 16   | 14        | 2280           |
| 820            | 827  | 8 x 12    | 21        | 1300           | 10 x 12.5 | 18        | 1760           | 10 x 16   | 14        | 2280           |
| 1000           | 108  | 8 x 15    | 20        | 1700           | 10 x 12.5 | 18        | 1760           | 10 x 16   | 14        | 2280           |
|                |      | 10 x 12.5 | 18        | 1760           | 10 x 16   | 14        | 2280           | 8 x 20    | 12        | 2220           |
|                |      |           |           |                | 8 x 20    | 12        | 2220           | 10 x 20   | 10        | 2900           |
| 1200           | 128  | 8 x 15    | 20        | 1700           | 10 x 16   | 14        | 2280           | 10 x 20   | 10        | 2900           |
| 1500           | 158  | 10 x 12.5 | 18        | 1760           | 10 x 16   | 14        | 2280           | 10 x 20   | 10        | 2900           |
|                |      | 8 x 20    | 12        | 2220           | 8 x 20    | 12        | 2220           |           |           |                |
|                |      | 10 x 16   | 14        | 2280           |           |           |                |           |           |                |
| 1800           | 188  | 10 x 16   | 14        | 2280           | 10 x 20   | 10        | 2900           | 10 x 25   | 9         | 3190           |
|                |      | 8 x 20    | 12        | 2220           |           |           |                | 12.5 x 20 | 9         | 3190           |
| 2200           | 228  | 10 x 16   | 14        | 2280           | 10 x 25   | 9         | 3190           | 12.5 x 20 | 9         | 3190           |
|                |      | 10 x 20   | 10        | 2900           | 12.5 x 20 | 9         | 3190           | 12.5 x 25 | 8         | 3370           |
| 2700           | 278  | 10 x 20   | 10        | 2900           | 12.5 x 20 | 9         | 3190           | 12.5 x 25 | 8         | 3370           |
| 3300           | 338  | 10 x 25   | 9         | 3190           | 12.5 x 25 | 8         | 3370           | 16 x 25   | 7         | 3610           |
|                |      | 12.5 x 20 | 9         | 3190           |           |           |                |           |           |                |
| 4700           | 478  | 12.5 x 20 | 9         | 3190           | 12.5 x 25 | 8         | 3370           |           |           |                |
| 5600           | 568  | 12.5 x 25 | 8         | 3370           | 16 x 25   | 7         | 3610           |           |           |                |
| 8200           | 828  | 16 x 25   | 7         | 3610           |           |           |                |           |           |                |

Maximum Allowable Ripple Current (mA rms) at 105°C 100KHz  
 Maximum Impedance (mΩ) at 20°C 100KHz

Case Size φD x L(mm)

GC

Miniature Aluminum Electrolytic Capacitors