

**SS Series****SAMXON®****7(9)mmL(高), High C/V(高C/V化)****FEATURES**

1. The SS series is employing etched foils for higher gain effect.
2. Designed for use in VTRs, car radios, car stereos, micro-cassette tape recorders, pocket calculators and watches.

**SPECIFICATIONS**

| Item                            | Performance Characteristics   |      |      |      |  |      |      |
|---------------------------------|---|------|------|------|--|------|------|
| Operating Temperature Range     | -40 to +85°C  |      |      |      |  |      |      |
| Rated Working Voltage Range     | 6.3 to 50V  |      |      |      |  |      |      |
| Nominal Capacitance Range       | 0.1 to 470μF  |      |      |      |  |      |      |
| Capacitance Tolerance           | ±20% (120Hz, +20°C)<br>whichever is greater measured after 2 minutes application of rated working voltage at +20°C                        |      |      |      |  |      |      |
| Leakage Current                 | I ≤ 0.01CV or 3(μA)   |      |      |      |  |      |      |
| tan δ (120Hz, +20°C)            | Working Voltage (V)   | 6.3  | 10   | 16   | 25   | 35   | 50   |
|                                 | tan δ (max.)  | 0.24 | 0.20 | 0.16 | 0.14   | 0.12 | 0.10 |
| Low Temperature Characteristics | Impedance ratio max. at 120Hz   |      |      |      |  |      |      |
|                                 | Working Voltage (V)   | 6.3  | 10   | 16   | 25   | 35   | 50   |
|                                 | Z-25°C / Z+20°C   | 4    | 3    | 2    | 2  | 2    | 2    |
|                                 | Z-40°C / Z+20°C   | 8    | 6    | 4    | 4  | 3    | 3    |
| High Temperature Loading        | Test conditions<br>Duration : 2000 hours<br>Ambient temp. : +85°C<br>Applied voltage : Rated DC working voltage with rated ripple current |      |      |      | Post test requirements at +20°C<br>Leakage current : ≤ Initial specified value<br>Cap. change : within ±20% of initial measured value<br>tan δ : ≤ 200% of initial specified value |      |      |
| Shelf Life                      | Test conditions<br>Duration : 1000 hours<br>Ambient temp. : +85°C<br>Applied voltage : (None)   |      |      |      | Post test requirements at +20°C<br>Same limits for high temperature loading.   |      |      |
| Others                          | JIS C - 5101 (IEC 60384)  |      |      |      |  |      |      |

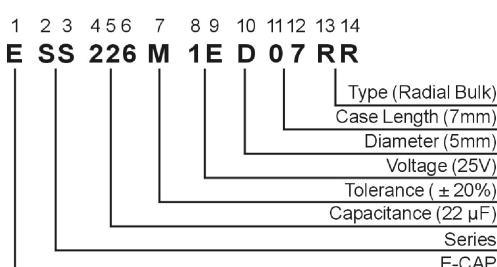
**CASE SIZE TABLE**

| φD | 4       | 5    | 6.3       | 8(L=7) | 8(L=9) |  |  |  |
|----|---------|------|-----------|--------|--------|--|--|--|
| F  | 1.5     | 2.0  | 2.5       | 3.5    | 3.5    |  |  |  |
| φd |         | 0.45 |           | 0.45   | 0.50   |  |  |  |
| α  | (L≤7) 1 |      | (L≥9) 1.5 |        |        |  |  |  |

Unit : mm

**RIPPLE CURRENT MULTIPLIER**

| Frequency Coefficient |             | 50   | 120  | 300  | 1k   | 10k~ |
|-----------------------|-------------|------|------|------|------|------|
| Cap(μF)               | Coefficient |      |      |      |      |      |
| ≤ 47                  |             | 0.75 | 1.00 | 1.35 | 1.57 | 2.00 |
| 68~470                |             | 0.80 | 1.00 | 1.23 | 1.34 | 1.50 |

**PART NUMBER SYSTEM(EXAMPLE:25V22 μF)**

**SS Series****SAMXON®****7(9)mmL(高), High C/V(高C/V化)****STANDARD RATINGS**

| Voltage (Code) |      | 6.3V (0J) |                | 10V (1A)    |                | 16V (1C)  |                | 25V (1E)  |                |
|----------------|------|-----------|----------------|-------------|----------------|-----------|----------------|-----------|----------------|
| Cap.( $\mu$ F) | Code | Case Size | Ripple Current | Case Size   | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 0.1            | 104  |           |                |             |                |           |                |           |                |
| 0.22           | 224  |           |                |             |                |           |                |           |                |
| 0.33           | 334  |           |                |             |                |           |                |           |                |
| 0.47           | 474  |           |                |             |                |           |                |           |                |
| 1              | 105  |           |                |             |                |           |                |           |                |
| 2.2            | 225  |           |                |             |                |           |                |           |                |
| 3.3            | 335  |           |                |             |                |           |                |           |                |
| 4.7            | 475  |           |                |             |                |           |                |           |                |
| 10             | 106  |           |                |             |                | 4 x 7     | 28             | 4 x 7     | 28             |
| 22             | 226  | 4 x 7     | 34             | 4 x 7       | 35             | 4 x 7     | 39             | 4 x 7     | 42             |
| 33             | 336  | 4 x 7     | 40             | 4 x 7       | 43             | (4) 5 x 7 | (45) 59        | 5 x 7     | 58             |
| 47             | 476  | 4 x 7     | 48             | (4) 5 x 7   | (45) 59        | 5 x 7     | 65             | 6.3 x 7   | 71             |
| 100            | 107  | 5 x 7     | 78             | (5) 6.3 x 7 | (74) 87        | 6.3 x 7   | 98             | 8 x 7 (9) | 115 (130)      |
| 220            | 227  | 6.3 x 7   | 120            | (6.3) 8 x 7 | (138) 145      | 8 x 9     | 186            |           |                |
| 330            | 337  | 8 x 7 (9) | 180 (204)      | 8 x 7       | 201            |           |                |           |                |
| 470            | 477  | 8 x 7 (9) | 215 (243)      |             |                |           |                |           |                |

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size  $\phi$ D x L(mm)

| Voltage (Code) |      | 35V (1V)  |                | 50V (1H)  |                |  |  |  |  |
|----------------|------|-----------|----------------|-----------|----------------|--|--|--|--|
| Cap.( $\mu$ F) | Code | Case Size | Ripple Current | Case Size | Ripple Current |  |  |  |  |
| 0.1            | 104  |           |                | 4 x 7     | 1.0            |  |  |  |  |
| 0.22           | 224  |           |                | 4 x 7     | 2.3            |  |  |  |  |
| 0.33           | 334  |           |                | 4 x 7     | 3.5            |  |  |  |  |
| 0.47           | 474  |           |                | 4 x 7     | 5.0            |  |  |  |  |
| 1              | 105  |           |                | 4 x 7     | 10             |  |  |  |  |
| 2.2            | 225  |           |                | 4 x 7     | 19             |  |  |  |  |
| 3.3            | 335  |           |                | 4 x 7     | 24             |  |  |  |  |
| 4.7            | 475  | 4 x 7     | 24             | 4 x 7     | 28             |  |  |  |  |
| 10             | 106  | 4 x 7     | 31             | 5 x 7     | 38             |  |  |  |  |
| 22             | 226  | 5 x 7     | 52             | 6.3 x 7   | 58             |  |  |  |  |
| 33             | 336  | 6.3 x 7   | 65             | 8 x 7 (9) | 75 (85)        |  |  |  |  |
| 47             | 476  | 6.3 x 7   | 74             | 8 x 9     | 101            |  |  |  |  |
| 100            | 107  | 8 x 9     | 141            |           |                |  |  |  |  |

Maximum Allowable Ripple Current (mA rms) at 85°C 120Hz

Case Size  $\phi$ D x L(mm)