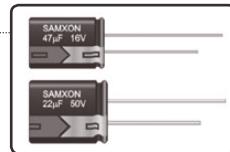


FEATURES

- Wide operating temperature range, it as long load life product at 125°C.
- Suitable for use in DC or pulse circuits in various electronic and industrial.

**SPECIFICATIONS**

| Item | Performance Characteristics | | | | | |
|--|--|---|--------|------|------|------|
| Operating Temperature Range | -40 to +125°C | | | | | |
| Rated Working Voltage Range | 10 to 50V | | | | | |
| Nominal Capacitance Range | 3.3 to 3900μF | | | | | |
| Capacitance Tolerance | ±20% at 120Hz, +20°C | | | | | |
| Leakage Current | I ≤ 0.03CV or 4 (μA) whichever is greater measured after 1 minute application of rated working voltage at +20°C | | | | | |
| tan δ (120Hz, +20°C) | Working Voltage (V) | 10 | 16 | 25 | 35 | 50 |
| | tan δ (max.) | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 |
| For capacitance value >1000μF, add 0.02 per another 1000μF | | | | | | |
| Low Temperature Characteristics | Impedance ratio max. at 120Hz | | | | | |
| | Working Voltage (V) | 10 | 16 | 25 | 35 | 50 |
| | Z-25°C / Z+20°C | 3 | 2 | 2 | 2 | 2 |
| High Temperature Loading | Z-40°C / Z+20°C | 6 | 4 | 4 | 4 | 4 |
| | Test time : ϕD | <8 | ≥8 | | | |
| | Load life | 1,000h | 2,000h | | | |
| Shelf Life | Post test requirements at +20 | | | | | |
| | Leakage current | ≤ Initial specified value | | | | |
| | Cap. change | within ±20% of the initial measured value | | | | |
| Industrial Standard | tan δ | ≤ 200% of the initial specified value | | | | |
| | At +125°C no voltage applied after 1,000 hours and then being stabilized at +20°C the capacitors shall meet the following limits | | | | | |
| | Leakage current | ≤ Initial specified value | | | | |
| Shelf Life | Cap. change | within ±20% of the initial measured value | | | | |
| | tan δ | ≤ 200% of the initial specified value | | | | |
| | JIS C - 5101-4 (IEC 60384-4) | | | | | |

CASE SIZE TABLE

| Safety vent for $\phi \geq 6.3$ | | Unit : mm | | | | | | | |
|---------------------------------|--|-----------|--|--|--|--|--|--|--|
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STANDARD RATINGS

| Voltage (Code) | | 10V (1A) | | 16V (1C) | | 25V (1E) | | 35V (1E) | | 50V (1H) | |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Cap. (μF) | Code | Case Size | Ripple Current |
| 3.3 | 335 | | | | | | | | | 5 x 11 | 21 |
| 4.7 | 475 | | | | | | | | | 5 x 11 | 26 |
| 10 | 106 | | | | | | | | | 5 x 11 | 38 |
| 22 | 226 | | | | | | | 5 x 11 | 47 | 5 x 11 | 55 |
| 33 | 336 | | | | | 5 x 11 | 53 | 5 x 11 | 56 | 6.3 x 11 | 81 |
| 47 | 476 | | | 5 x 11 | 56 | 5 x 11 | 59 | 6.3 x 11 | 84 | 6.3 x 11 | 93 |
| 100 | 107 | 5 x 11 | 74 | 5 x 11 | 88 | 6.3 x 11 | 111 | 6.3 x 11 | 118 | 8 x 12 | 160 |
| 220 | 227 | 6.3 x 11 | 135 | 6.3 x 11 | 149 | 8 x 12 | 200 | 10 x 12.5 | 240 | | |
| 330 | 337 | 6.3 x 11 | 167 | 8 x 12 | 221 | 8 x 12 | 238 | | | | |
| 470 | 477 | 8 x 12 | 237 | 8 x 12 | 256 | 10 x 16 | 366 | | | | |
| 1000 | 108 | | | | | 10 x 20 | 575 | | | | |
| 2200 | 228 | | | | | 12.5 x 25 | 908 | | | | |
| 3900 | 398 | | | | | 16 x 30 | 1356 | | | | |

Maximum Allowable Ripple Current (mA rms) at 125°C 120Hz

Case Size ϕ D x L (mm)