

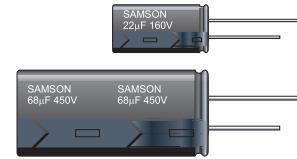
SAMSON

SRD Series

Long Life Assurance(長壽命), High Ripple Current(高紋波)

FEATURES

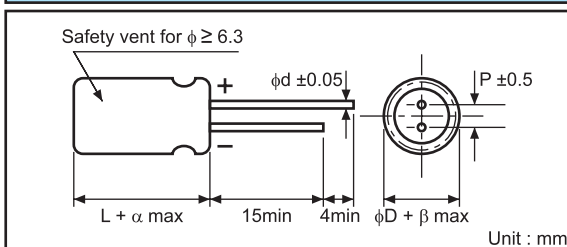
1. High ripple current at high frequency, Load Life of 8000~10000 Hours at 105°C.
2. For electronic ballast, Power supply input circuit.



SPECIFICATIONS

| Item | Performance Characteristics | | | | | | | |
|--|---|------------|-------|---------|---|------|------|--|
| Operating Temperature Range | -25 to +105°C | | | | | | | |
| Rated Working Voltage Range | 160 to 450V | | | | | | | |
| Nominal Capacitance Range | 10 to 330µF | | | | | | | |
| Capacitance Tolerance | ±20% (120Hz, +20°C) | | | | | | | |
| Leakage Current | I ≤ 0.06CV + 10(µA) after 2 minutes application of rated working voltage at +20°C(whichever greater) | | | | | | | |
| Dissipation Factor tan δ (120Hz, +20°C) | Working Voltage (V) | 160 | 200 | 250 | 350 | 400 | 450 | |
| | tan δ (max.) | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 | |
| Low Temperature Characteristics | Impedance ratio max. at 120Hz | | | | | | | |
| | Working Voltage (V) | 160 | 200 | 250 | 350 | 400 | 450 | |
| | Z-25°C / Z+20°C | 3 | 3 | 3 | 6 | 6 | 6 | |
| High Temperature Loading | Test conditions | | | | Post test requirements at +20°C | | | |
| | Duration : | φD | 10 | 12.5~18 | Leakage current : ≤ Initial specified value | | | |
| | | Load life | 8000h | 10000h | Cap. change : within ±20% of initial measured value | | | |
| | Ambient temp. : | +105°C | | | tan δ : ≤ 200% of initial specified value | | | |
| Applied voltage : | Rated DC working voltage with max ripple current | | | | | | | |
| Shelf Life | Test conditions | | | | Post test requirements at +20°C | | | |
| | Duration : | 1000 hours | | | Leakage current : ≤ Initial specified value | | | |
| | Ambient temp. : | +105°C | | | Cap. change : within ±20% of initial measured value | | | |
| | Applied voltage : | (None) | | | tan δ : ≤ 200% of initial specified value | | | |
| Others | JIS C - 5141 EIAJ RC - 2372 | | | | | | | |

CASE SIZE TABLE



| φD | 10 | 12.5 | 16 | 18 | | | | |
|----|--------------|------|-----|-----|--------------|--|--|--|
| ρ | 5.0 | 5.0 | 7.5 | 7.5 | | | | |
| φd | 0.6 | 0.6 | 0.8 | 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) | ~ 55 | 60 | 70 | 85 | 105 | Cap(µF) | Freq.(Hz) | 50 | 120 | 300 | 1K | 10K | 100K |
| Factor | 2.23 | 2.17 | 2.00 | 1.75 | 1.00 | < 100 | | 0.30 | 0.40 | 0.55 | 0.70 | 0.90 | 1.00 |
| | | | | | | ≥ 100 | | 0.35 | 0.45 | 0.60 | 0.75 | 0.90 | 1.00 |

SRD Series

Long Life Assurance(長壽命), High Ripple Current(高紋波)

| DIMENSIONS | | | | | | | | | |
|----------------|------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|
| Voltage (Code) | | 160V | | 200V | | 250V | | 350V | |
| Cap.(μ F) | Code | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current | Case Size | Ripple Current |
| 10 | 106 | | | | | 10 x 16 | 380 | 10 x 20 | 350 |
| 15 | 156 | | | | | | | | |
| 22 | 226 | 10 x 20 | 500 | 10 x 20 | 600 | 10 x 20 | 560 | 12.5 x 20 | 480 |
| 33 | 336 | 10 x 20 | 580 | 10 x 20 | 650 | 12.5 x 20 | 710 | 16 x 20 | 640 |
| 47 | 476 | 10 x 20 | 750 | 12.5 x 20 | 790 | 12.5 x 25 | 920 | 16 x 25 | 800 |
| | | | | | | 16 x 20 | 990 | 18 x 20 | |
| 68 | 686 | 12.5 x 20 | 950 | 12.5 x 25 | 950 | 16 x 20 | 1000 | 16 x 30 | 1100 |
| | | | | 16 x 20 | 1000 | | | 18 x 25 | 1000 |
| 82 | 826 | 12.5 x 25 | 1060 | 16 x 20 | 1100 | 16 x 25 | 1200 | 18 x 25 | 1100 |
| | | | | | | 18 x 20 | 1200 | | |
| 100 | 107 | 12.5 x 25 | 1170 | 16 x 25 | 1300 | 16 x 30 | 1500 | 18 x 30 | 1200 |
| | | 16 x 20 | 1280 | 18 x 20 | 1280 | 18 x 25 | 1500 | | |
| 150 | 157 | 16 x 25 | 1400 | 16 x 25 | 1400 | 18 x 30 | 1800 | | |
| | | 18 x 20 | 1400 | | | | | | |
| 220 | 227 | 16 x 30 | 1700 | 18 x 30 | 2000 | 18 x 40 | 2100 | | |
| | | 18 x 25 | 1500 | 18 x 40 | 2400 | | | | |
| 330 | 337 | 18 x 31.5 | 2000 | 18 x 40 | 2400 | | | | |

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

Case Size ϕ D x L(mm)

| Voltage (Code) | | 400V | | 450V | | | | | |
|----------------|------|-----------|----------------|-----------|----------------|--|--|--|--|
| Cap.(μ F) | Code | Case Size | Ripple Current | Case Size | Ripple Current | | | | |
| 10 | 106 | 10 x 20 | 300 | 12.5 x 20 | 350 | | | | |
| 15 | 156 | 12.5 x 20 | 410 | 12.5 x 25 | 560 | | | | |
| 22 | 226 | 12.5 x 25 | 500 | 16 x 20 | 680 | | | | |
| | | 16 x 20 | 600 | | | | | | |
| 33 | 336 | 16 x 20 | 730 | 16 x 30 | 850 | | | | |
| | | | | 18 x 25 | 850 | | | | |
| 47 | 476 | 16 x 25 | 840 | 18 x 31.5 | 1000 | | | | |
| | | 18 x 20 | 840 | | | | | | |
| 68 | 686 | 18 x 30 | 1200 | 18 x 40 | 1300 | | | | |
| 82 | 826 | 18 x 40 | 1500 | | | | | | |

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

Case Size ϕ D x L(mm)