

SGV series

105°C 2000~5000時間 標準品
Load Life : 105°C 2000~5000 hours, Standard

AEC-Q200



◆規格表 / SPECIFICATIONS

| 項目 Item | 特性 Characteristics | | | | | | | | | | | |
|--|--|---|------------|------|------|------|------|----|-----|-------------|------------|----------------------------|
| カテゴリ温度範囲 Category Temperature Range | -55~+105°C | -40~+105°C | -25~+105°C | | | | | | | | | |
| 定格電圧範囲 Rated Voltage Range | 6.3~50Vdc | 63,100Vdc | 160~450Vdc | | | | | | | | | |
| 静電容量許容差 Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | |
| 漏れ電流 Leakage Current (MAX) | 6.3~100Vdc | 160~450Vdc | | | | | | | | | | |
| | I=0.01CV又は3μAのいずれか大なる値以下 (定格電圧印加2分後) I=0.01CV or 3μA whichever is greater. (After 2 minutes) | I=0.04CV+100μA以下(1分値) I=0.04CV+100μA (1minute) I=0.02CV+25μA以下(5分値) I=0.02CV+25μA (5minutes) | | | | | | | | | | |
| 損失角の正接(tan δ) Dissipation Factor(MAX) | I=漏れ電流(μA) C=静電容量(μF) V=定格電圧(Vdc) Leakage Current Capacitance Rated Voltage | | | | | | | | | | | |
| | 定格電圧(Vdc) Rated Voltage | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 ~250 | 400 450 | (20°C, 120Hz) |
| | φ4, φ5, φ6.3X6.1 | 0.30 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | - | - | - | - | |
| 耐久性 Endurance | 105°C中で右表の時間定格電圧(リップル重量)印加後、下記項目を満足すること。 After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements. | | | | | | | | | | | |
| | 静電容量変化率 Capacitance Change | 初期値の ±25% 以内 Within ±25% of the initial value. | | | | | | | | | | 定格電圧(Vdc) Rated Voltage |
| 低温特性 Low Temperature Stability (インピーダンス比) Impedance Ratio (MAX) | 1000μFを越えるものは1000μF増す毎に上表の値に0.02を加えた値とする。 When rated capacitance is over 1000μF, tan δ shall be added 0.02 to the listed value with increase of every 1000μF. | | | | | | | | | | | |
| | Z(-25°C)/Z(20°C) | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 6 | (120Hz) |
| | Z(-40°C)/Z(20°C) | 8 | 8 | 4 | 4 | 3 | 3 | 5 | 5 | - | - | |

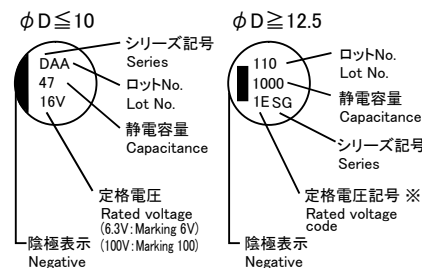
◆呼称方法 / PART NUMBER



◆リップル電流補正係数 / MULTIPLIER FOR RIPPLE CURRENT

| 係数 Coefficient | 周波数 (Hz) Frequency | 60(50) | 120 | 500 | 1k | 10k ≤ |
|-------------------|-----------------------|--------|------|------|------|-------|
| | 0.47~1 μF | 0.50 | 1.00 | 1.20 | 1.30 | 1.50 |
| 2.2~6.8 μF | 0.65 | 1.00 | 1.20 | 1.30 | 1.50 | |
| 8.2~68 μF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 | |
| 100~1000 μF | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 | |
| 2200~6800 μF | 0.80 | 1.00 | 1.05 | 1.10 | 1.15 | |

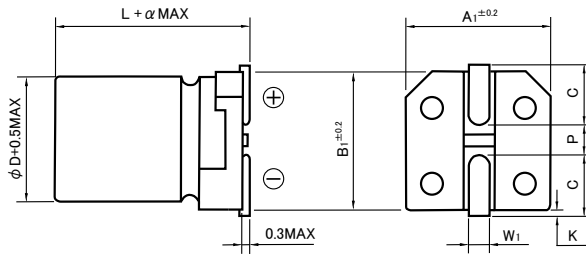
◆表示 / MARKING



※電圧記号 Voltage code

| | | | | |
|----------------------------|-----|-----|-----|-----|
| 定格電圧(Vdc) Rated Voltage | 6.3 | 10 | 16 | 25 |
| 電圧記号 Voltage code | 0J | 1A | 1C | 1E |
| 定格電圧(Vdc) Rated Voltage | 35 | 50 | 63 | 100 |
| 電圧記号 Voltage code | 1V | 1H | 1J | 2A |
| 定格電圧(Vdc) Rated Voltage | 160 | 200 | 250 | 400 |
| 電圧記号 Voltage code | 2C | 2D | 2E | 2G |
| 定格電圧(Vdc) Rated Voltage | 450 | | | |
| 電圧記号 Voltage code | 2W | | | |

◆寸法図／DIMENSIONS



(mm)

| φD | L | A1 | B1 | C | W1 | P | K | α |
|------|------|------|------|-----|---------|-----|---------|-----|
| 4 | 6.1 | 4.3 | 4.3 | 1.8 | 0.5~0.8 | 1.0 | 0.5MAX | 0 |
| 5 | 6.1 | 5.3 | 5.3 | 2.2 | 0.5~0.8 | 1.3 | 0.5MAX | 0 |
| 6.3 | 6.1 | 6.6 | 6.6 | 2.7 | 0.5~0.8 | 1.8 | 0.5MAX | 0 |
| 6.3 | 8 | 6.6 | 6.6 | 2.7 | 0.5~0.8 | 1.8 | 0.5MAX | 0 |
| 8 | 6.5 | 8.3 | 8.3 | 3.4 | 0.5~0.8 | 2.2 | 0.5MAX | 0 |
| 8 | 10.5 | 8.3 | 8.3 | 2.9 | 0.8~1.1 | 3.1 | 0.5MAX | ※ |
| 10 | 10.5 | 10.3 | 10.3 | 3.2 | 0.8~1.1 | 4.5 | 0.5MAX | ※ |
| 12.5 | 13.5 | 13 | 13 | 4.9 | 0.8~1.1 | 4.5 | 0.7±0.4 | 0.5 |
| 12.5 | 16 | 13 | 13 | 4.9 | 0.8~1.1 | 4.5 | 0.7±0.4 | 0.5 |
| 16 | 16.5 | 17 | 17 | 6 | 1.0~1.6 | 6.8 | 0.7±0.4 | 0.5 |
| 16 | 21.5 | 17 | 17 | 6 | 1.0~1.6 | 6.8 | 0.7±0.4 | 0.5 |
| 18 | 16.5 | 19 | 19 | 7 | 1.0~1.6 | 6.8 | 0.7±0.4 | 0.5 |
| 18 | 21.5 | 19 | 19 | 7 | 1.0~1.6 | 6.8 | 0.7±0.4 | 0.5 |

※ 6.3~100V品 : α=0 160~400V品 : α=0.2

◆標準品一覧表／STANDARD SIZE

Size φD × L(mm), Rated Ripple Current (mA r.m.s./105°C, 120Hz)

| Vdc | Cap (μF) | Size (φD × L) | Ripple | |
|------|----------|---------------|-----------|-----|
| 6.3 | 22 | 4×6.1 | 26 | |
| | 33 | 4×6.1 | 29 | |
| | 47 | 5×6.1 | 46 | |
| | 100 | 6.3×6.1 | 71 | |
| | 220 | 6.3×8 | 121 | |
| | 470 | 8×10.5 | 210 | |
| | 1000 | 10×10.5 | 495 | |
| | | 12.5×13.5 | | |
| | 2200 | 12.5×16 | 750 | |
| | 3300 | 16×21.5 | 930 | |
| | 18×16.5 | | | |
| 4700 | 18×21.5 | 1200 | | |
| 6800 | 18×21.5 | 1350 | | |
| 10 | 33 | 5×6.1 | 43 | |
| | 100 | 6.3×6.1 | 71 | |
| | 330 | 8×10.5 | 195 | |
| | 470 | 8×10.5 | 210 | |
| | | 10×10.5 | 440 | |
| | 1000 | 12.5×16 | 500 | |
| | 2200 | 16×16.5 | 810 | |
| | 3300 | 16×21.5 | 1000 | |
| | | 18×16.5 | | |
| | 4700 | 18×21.5 | 1200 | |
| 16 | 10 | 4×6.1 | 28 | |
| | 22 | 5×6.1 | 39 | |
| | 47 | 6.3×6.1 | 70 | |
| | 100 | 6.3×8 | 111 | |
| | 220 | 8×10.5 | 185 | |
| | 330 | 8×10.5 | 290 | |
| | | 10×10.5 | 440 | |
| | 470 | 8×10.5 | 320 | |
| | | 10×10.5 | 460 | |
| | 1000 | 16×16.5 | 630 | |
| 2200 | 16×21.5 | 930 | | |
| | 18×16.5 | | | |
| 3300 | 18×21.5 | 1150 | | |
| 25 | 33 | 6.3×6.1 | 65 | |
| | 47 | 6.3×8 | 79 | |
| | | 8×6.5 | 91 | |
| | 100 | 8×10.5 | 180 | |
| | 220 | 8×10.5 | 320 | |
| | | 10×10.5 | 355 | |
| | 330 | 10×10.5 | 450 | |
| | | 12.5×13.5 | | |
| | 470 | 10×10.5 | 490 | |
| | 1000 | 16×21.5 | 700 | |
| | 18×16.5 | | | |
| 2200 | 18×21.5 | 1050 | | |
| 3300 | 18×21.5 | 1700 | | |
| 35 | 4.7 | 4×6.1 | 15 | |
| | 10 | 5×6.1 | 28 | |
| | 22 | 6.3×6.1 | 55 | |
| | 33 | 6.3×8 | 76 | |
| | | 8×6.5 | 84 | |
| | 100 | 8×10.5 | 180 | |
| | | 10×10.5 | 305 | |
| | 220 | 10×10.5 | 450 | |
| | | 12.5×13.5 | | |
| | 330 | 12.5×16 | 460 | |
| 470 | 16×16.5 | 490 | | |
| 1000 | 16×21.5 | 750 | | |
| | 18×16.5 | | | |
| 50 | 0.47 | 4×6.1 | 4 | |
| | 1 | 4×6.1 | 8 | |
| | 2.2 | 4×6.1 | 11 | |
| | 3.3 | 4×6.1 | 14 | |
| | 4.7 | 5×6.1 | 19 | |
| | 10 | 6.3×6.1 | 35 | |
| | 22 | 6.3×8 | 67 | |
| | | 8×6.5 | 70 | |
| | 33 | 8×10.5 | 140 | |
| | 47 | 8×10.5 | 167 | |
| | 10×10.5 | 180 | | |
| 100 | 8×10.5 | 230 | | |
| | 10×10.5 | 315 | | |
| 220 | 12.5×16 | 380 | | |
| 330 | 16×16.5 | 470 | | |
| 470 | 16×21.5 | 550 | | |
| | 18×16.5 | | | |
| 1000 | 18×21.5 | 820 | | |
| 63 | 22 | 8×10.5 | 55 | |
| | 33 | 8×10.5 | 115 | |
| | 47 | 8×10.5 | 120 | |
| | 100 | 12.5×16 | 225 | |
| | 220 | 16×16.5 | 385 | |
| | 330 | 16×21.5 | 490 | |
| | | 18×16.5 | | |
| | 470 | 18×21.5 | 590 | |
| | 100 | 10 | 8×10.5 | 65 |
| | | 22 | 10×10.5 | 90 |
| 33 | | 10×10.5 | 135 | |
| 47 | | 12.5×13.5 | 160 | |
| 100 | | 16×16.5 | 285 | |
| 220 | | 16×21.5 | 440 | |
| | | 18×16.5 | | |
| 160 | | 12 | 8×10.5 | 115 |
| | | 22 | 10×10.5 | 150 |
| | | 39 | 12.5×13.5 | 250 |
| | 47 | 12.5×16 | 310 | |
| | 68 | 16×16.5 | 400 | |
| | 100 | 18×16.5 | 480 | |
| | 120 | 16×21.5 | 560 | |
| | 150 | 18×21.5 | 690 | |
| | 200 | 10 | 8×10.5 | 100 |
| | | 15 | 10×10.5 | 130 |
| 33 | | 12.5×13.5 | 230 | |
| 42 | | 12.5×16 | 270 | |
| 56 | | 16×16.5 | 350 | |
| 68 | | 18×16.5 | 440 | |
| 100 | | 16×21.5 | 500 | |
| 120 | | 18×21.5 | 620 | |
| 250 | | 6.8 | 8×10.5 | 85 |
| | | 12 | 10×10.5 | 115 |
| | 22 | 12.5×13.5 | 190 | |
| | 33 | 12.5×16 | 240 | |
| | 47 | 16×16.5 | 320 | |
| | 56 | 18×16.5 | 400 | |
| | 68 | 16×21.5 | 450 | |
| | 100 | 18×21.5 | 560 | |
| | 400 | 2.7 | 8×10.5 | 45 |
| | | 4.7 | 10×10.5 | 75 |
| 10 | | 12.5×13.5 | 135 | |
| 12 | | 12.5×16 | 165 | |
| 18 | | 16×16.5 | 220 | |
| 22 | | 18×16.5 | 280 | |
| 33 | | 16×21.5 | 320 | |
| 47 | | 18×21.5 | 400 | |
| 450 | | 6.8 | 12.5×13.5 | 110 |
| | | 8.2 | 12.5×16 | 150 |
| | 12 | 16×16.5 | 195 | |
| | 18 | 18×16.5 | 245 | |
| | 22 | 16×21.5 | 275 | |
| | 27 | 18×21.5 | 345 | |

■ = 生産中止予定品
OBSOLETE PRODUCTS