# Type CG Reliable Screw Terminal Aluminum Electrolytic Capacitor

## 85 ºC, Screw Terminal Capacitors

Type CG screw terminal, aluminum electrolytic capacitors have excellent reliability and are good for 2000 hours at 85 ºC at full rated voltage.

## Highlights

- High reliability at 85 ºC
- Screw Terminal
- Long Life

## Specifications

**Capacitance Range:** 40 to 160,000 µF
**Voltage Range:** 10 to 450 WVdc
**Capacitance Tolerance:** –10% +75% (10 - 150 WVdc)
–10% +50% (151 - 450 WVdc)
**Operating Temperature:** –40 ºC to +85 ºC
**Ripple Current Multipliers:** Ambient Temperature

| 25 ºC | 35 ºC | 45 ºC | 55 ºC | 65 ºC | 85 ºC |
|---|---|---|---|---|---|
| 2.00 | 1.88 | 1.72 | 1.58 | 1.42 | 1.00 |

| Rated Voltage | Ripple Multiplier | | | | |
|---|---|---|---|---|---|
| | 120 Hz | 400 Hz | 1000 Hz | 2500 Hz | 10 kHz |
| 10 to 75 | 1.000 | 1.050 | 1.085 | 1.135 | 1.150 |
| 76 to 250 | 1.000 | 1.075 | 1.125 | 1.155 | 1.210 |
| 251 to 450 | 1.000 | 1.080 | 1.130 | 1.175 | 1.230 |

**DC Leakage Current:** $I \leq 3\sqrt{CV}$ after 5 minutes
Not to exceed 4.0 mA
C = Capacitance in µF
V = Rated Voltage
I = Leakage current in µA

Click here to see: Hardware & Mounting Options

**QA Stability Test:** Apply WVdc for 2000 h @ 85 ºC
- Capacitance change ±15% from initial limits
- DC leakage current: 200% of limit
- ESR: 175% of limit

Click here to see: Mechanical Details

## Ratings

| Cap (µF) | Catalog Part Number | Typical ESR 120 Hz (Ω) | Max Ripple 120 Hz +85 ºC (A) RMS | Dia. (Inches) | Length (Inches) |
|---|---|---|---|---|---|
| 10 WVdc ( 15 Vdc Surge ) | | | | | |
| 160,000 | CG164U010X5L | 0.006 | 27.1 | 3 | 5.625 |
| 16 WVdc ( 20 Vdc Surge ) | | | | | |
| 2,500 | CG252U016R2C | 0.047 | 3.9 | 1.375 | 2.125 |
| 6,500 | CG652U016R2C | 0.039 | 4.3 | 1.375 | 2.125 |
| 10,500 | CG1052U016V3C | 0.027 | 7.6 | 2.000 | 3.125 |

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|---|---|---|---|---|---|
| 16 WVdc ( 20 Vdc Surge ) | | | | | |
| 12,000 | CG123U016R3C | 0.024 | 6.4 | 1.375 | 3.125 |
| 18,000 | CG183U016R4C | 0.018 | 8.3 | 1.375 | 4.125 |
| 21,000 | CG213U016U3C | 0.012 | 10.5 | 1.750 | 3.125 |
| 27,000 | CG273U016V3C | 0.012 | 11.4 | 2.000 | 3.125 |
| 40,000 | CG403U016V4C | 0.009 | 14.7 | 2.000 | 4.125 |

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## Ratings

| Cap (µF) | Catalog Part Number | Typical ESR 120 Hz (Ω) | Max Ripple 120 Hz +85 °C (A) RMS | Dia. (Inches) | Length (Inches) |
|---|---|---|---|---|---|
| **25 WVdc ( 40 Vdc Surge )** | | | | | |
| 1,500 | CG152U025R2C | .058 | 3.5 | 1.375 | 2.125 |
| 2,800 | CG282U025R3C | 0.036 | 5.2 | 1.375 | 3.125 |
| 3,300 | CG332U025R2C | 0.043 | 4.1 | 1.375 | 2.125 |
| 4,500 | CG452U025U3C | 0.006 | 14.8 | 1.750 | 3.125 |
| 6,000 | CG602U025V3C | 0.029 | 7.3 | 2.000 | 3.125 |
| 6,300 | CG632U025R3C | 0.028 | 5.9 | 1.375 | 3.125 |
| 8,500 | CG852U025V4C | 0.022 | 9.4 | 2.000 | 4.125 |
| 9,200 | CG922U025R4C | 0.022 | 7.5 | 1.375 | 4.125 |
| 10,000 | CG103U025U3C | 0.026 | 7.1 | 1.750 | 3.125 |
| 13,000 | CG133U025V3C | 0.024 | 8.0 | 2.000 | 3.125 |
| 20,000 | CG203U025V4C | 0.019 | 10.1 | 2.000 | 4.125 |
| 20,000 | CG203U025X4C | 0.019 | 12.9 | 3.000 | 4.125 |
| 32,000 | CG323U025W4C | 0.010 | 15.9 | 2.500 | 4.125 |
| 48,000 | CG483U025X4C | 0.005 | 25.2 | 3.000 | 4.125 |
| **35 WVdc ( 50 Vdc Surge )** | | | | | |
| 1,100 | CG112U035R2C | 0.063 | 3.4 | 1.375 | 2.125 |
| 2,100 | CG212U035R3C | 0.039 | 5.0 | 1.375 | 3.125 |
| 2,300 | CG232U035R2C | 0.051 | 3.8 | 1.375 | 2.125 |
| 4,300 | CG432U035R3C | 0.030 | 5.7 | 1.375 | 3.125 |
| 9,500 | CG952U035V3C | 0.025 | 7.9 | 2.000 | 3.125 |
| 11,000 | CG113U035W4C | 0.021 | 11.0 | 2.500 | 4.125 |
| 11,000 | CG113U035U4C | 0.020 | 9.1 | 1.750 | 4.125 |
| 14,000 | CG143U035V4C | 0.018 | 10.4 | 2.000 | 4.125 |
| 22,000 | CG223U035W4C | 0.011 | 15.2 | 2.500 | 4.125 |
| 33,000 | CG333U035X4C | 0.006 | 23.0 | 3.000 | 4.125 |
| **50 WVdc ( 75 Vdc Surge )** | | | | | |
| 800 | CG801U050R2C | 0.072 | 3.2 | 1.375 | 2.125 |
| 1,500 | CG152U050R2C | 0.058 | 3.5 | 1.375 | 2.125 |
| 1,500 | CG152U050R3C | 0.044 | 4.7 | 1.375 | 3.125 |
| 2,000 | CG202U050R4C | 0.033 | 6.1 | 1.375 | 4.125 |
| 2,500 | CG252U050U3C | 0.037 | 6.0 | 1.750 | 3.125 |
| 2,900 | CG292U050R3C | 0.036 | 5.2 | 1.375 | 3.125 |
| 3,300 | CG332U050V3C | 0.035 | 6.7 | 2.000 | 3.125 |
| 4,300 | CG432U050R4C | 0.026 | 6.9 | 1.375 | 4.125 |
| 4,500 | CG452U050V4C | 0.026 | 8.6 | 2.000 | 4.125 |
| 5,000 | CG502U050U3C | 0.029 | 6.7 | 1.750 | 3.125 |
| 6,500 | CG652U050V3C | 0.017 | 9.6 | 2.000 | 3.125 |
| 7,300 | CG732U050W4C | 0.023 | 10.5 | 2.500 | 4.125 |
| 7,400 | CG742U050U4C | 0.022 | 8.7 | 1.750 | 4.125 |
| 9,500 | CG952U050V4C | 0.013 | 12.2 | 2.000 | 4.125 |
| 10,000 | CG103U050X4C | 0.013 | 15.6 | 3.000 | 4.125 |
| 15,000 | CG153U050W4C | 0.009 | 16.8 | 2.500 | 4.125 |
| 16,500 | CG1652U050X5L | 0.010 | 20.5 | 3.000 | 5.625 |
| 22,000 | CG223U050X4C | 0.006 | 22.5 | 3.000 | 4.125 |
| 33,000 | CG333U050X5L | 0.005 | 29.0 | 3.000 | 5.625 |
| **75 WVdc ( 100 Vdc Surge )** | | | | | |
| 600 | CG601U075R2C | 0.085 | 2.9 | 1.375 | 2.125 |
| 800 | CG801U075R2C | 0.072 | 3.2 | 1.375 | 2.125 |
| 1,000 | CG102U075R3C | 0.053 | 4.3 | 1.375 | 3.125 |
| 1,500 | CG152U075R4C | 0.037 | 5.8 | 1.375 | 4.125 |
| 1,500 | CG152U075R3C | 0.045 | 4.7 | 1.375 | 3.125 |
| 2,000 | CG202U075U3C | 0.039 | 5.8 | 1.750 | 3.125 |
| 2,500 | CG252U075V3C | 0.036 | 6.6 | 2.000 | 3.125 |
| 2,600 | CG262U075U3C | 0.035 | 6.1 | 1.750 | 3.125 |

| Cap (µF) | Catalog Part Number | Typical ESR 120 Hz (Ω) | Max Ripple 120 Hz +85 °C (A) RMS | Dia. (Inches) | Length (Inches) |
|---|---|---|---|---|---|
| **75 WVdc ( 100 Vdc Surge )** | | | | | |
| 3,300 | CG332U075V3C | 0.022 | 8.4 | 2.000 | 3.125 |
| 3,450 | CG3451U075V4C | 0.027 | 8.5 | 2.000 | 4.125 |
| 4,900 | CG492U075V4C | 0.015 | 11.3 | 2.000 | 4.125 |
| 7,900 | CG792U075W4C | 0.012 | 14.5 | 2.500 | 4.125 |
| 8,200 | CG822U075X4C | 0.012 | 16.3 | 3.000 | 4.125 |
| 11,000 | CG113U075X4C | 0.009 | 18.8 | 3.000 | 4.125 |
| 12,500 | CG1252U075X5L | 0.009 | 21.8 | 3.000 | 5.625 |
| **100 WVdc ( 135 Vdc Surge )** | | | | | |
| 400 | CG401U100R2C | 0.180 | 2.0 | 1.375 | 2.125 |
| 1,000 | CG102U100R4C | 0.068 | 4.3 | 1.375 | 4.125 |
| 1,300 | CG132U100U3C | 0.066 | 4.5 | 1.750 | 3.125 |
| 1,700 | CG172U100W4C | 0.050 | 5.7 | 1.750 | 4.125 |
| 2,250 | CG2251U100V4C | 0.036 | 7.3 | 2.000 | 4.125 |
| 2,500 | CG252U100V4C | 0.030 | 8.0 | 2.000 | 4.125 |
| 3,600 | CG362U100W4C | 0.020 | 11.3 | 2.500 | 4.125 |
| 4,000 | CG402U100W4C | 0.019 | 11.5 | 2.500 | 4.125 |
| **150 WVdc ( 185 Vdc Surge )** | | | | | |
| 275 | CG2750U150R2C | 0.170 | 2.1 | 1.375 | 2.125 |
| 500 | CG501U150R3C | 0.103 | 3.1 | 1.375 | 3.125 |
| 1,550 | CG1551U150V4C | 0.052 | 6.1 | 2.000 | 4.125 |
| 2,500 | CG252U150W4C | 0.030 | 9.2 | 2.500 | 4.125 |
| 3,600 | CG362U150X4C | 0.022 | 9.4 | 3.000 | 4.125 |
| 5,600 | CG562U150X3L | 0.014 | 17.0 | 3.000 | 3.625 |
| **200 WVdc ( 250 Vdc Surge )** | | | | | |
| 180 | CG181T200R2C | 0.280 | 1.6 | 1.375 | 2.125 |
| 450 | CG451T200R4C | 0.120 | 3.2 | 1.375 | 4.125 |
| 550 | CG551T200U3C | 0.150 | 3.0 | 1.750 | 3.125 |
| 750 | CG751T200V3C | 0.102 | 3.9 | 2.000 | 3.125 |
| 1,000 | CG102T200V4C | 0.085 | 4.8 | 2.000 | 4.125 |
| 1,650 | CG1651T200W4C | 0.050 | 7.8 | 2.500 | 4.125 |
| 2,450 | CG2451T200X4C | 0.034 | 9.7 | 3.000 | 4.125 |
| 3,800 | CG382T200X5L | 0.023 | 13.2 | 3.000 | 5.625 |
| **250 WVdc ( 300 Vdc Surge )** | | | | | |
| 140 | CG141T250R2C | 0.310 | 1.5 | 1.375 | 2.125 |
| 375 | CG3750T250R4C | 0.130 | 3.1 | 1.375 | 4.125 |
| 600 | CG601T250V3C | 0.091 | 4.1 | 2.000 | 3.125 |
| 800 | CG801T250V4C | 0.072 | 4.6 | 2.000 | 4.125 |
| 3,000 | CG302T250X5L | 0.020 | 14.2 | 3.000 | 5.625 |
| **300 WVdc ( 350 Vdc Surge )** | | | | | |
| 525 | CG5250T300V3C | 0.095 | 4.0 | 2.000 | 3.125 |
| **350 WVdc ( 400 Vdc Surge )** | | | | | |
| 100 | CG101T350R2C | 0.720 | 1.0 | 1.375 | 2.125 |
| 180 | CG181T350R3C | 0.500 | 1.4 | 1.375 | 3.125 |
| 250 | CG251T350R4C | 0.290 | 2.1 | 1.375 | 4.125 |
| 400 | CG401T350V3C | 0.260 | 2.4 | 2.000 | 3.125 |
| 550 | CG551T350V4C | 0.180 | 3.3 | 2.000 | 4.125 |
| 2,000 | CG202T350X5L | 0.061 | 8.1 | 3.000 | 5.625 |
| **400 WVdc ( 475 Vdc Surge )** | | | | | |
| 325 | CG3250T400V4C | 0.220 | 3.0 | 2.000 | 4.125 |
| **450 WVdc ( 525 Vdc Surge )** | | | | | |
| 40 | CG400T450R2C | 3.240 | 0.5 | 1.375 | 2.125 |
| 110 | CG111T450R4C | 1.220 | 1.0 | 1.375 | 4.125 |
| 240 | CG241T450V4C | 0.330 | 2.4 | 2.000 | 4.125 |

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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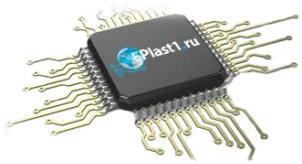
- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

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