

# Type CG Reliable Screw Terminal Aluminum Electrolytic Capacitor

## 85 °C, Screw Terminal Capacitors



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

### Highlights

- High reliability at 85 °C
- Screw Terminal
- Long Life

### Specifications

|                                    |   |
|------------------------------------|---|
| <b>Capacitance Range:</b>          | 40 to 160,000 µF  |
| <b>Voltage Range:</b>              | 10 to 450 WVdc  |
| <b>Capacitance Tolerance:</b>      | -10% +75% (10 - 150 WVdc)<br>-10% +50% (151 - 450 WVdc) |
| <b>Operating Temperature:</b>      | -40 °C to +85 °C  |
| <b>Ripple Current Multipliers:</b> | Ambient Temperature                                     |

| 25 °C | 35 °C | 45 °C | 55 °C | 65 °C | 85 °C |
|-------|-------|-------|-------|-------|-------|
| 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 °C

- Capacitance change  $\pm 15\%$  from initial limits
- DC leakage current: 200% of limit
- ESR: 175% of limit

[Click here to see: Mechanical Details](#)

### Ratings

| Cap<br>(µF)                     | Catalog<br>Part Number | Typical ESR   |               | Max Ripple<br>120 Hz<br>+85 °C<br>(A) RMS | Dia.<br>(Inches) | Length<br>(Inches) |
|---------------------------------|------------------------|---------------|---------------|---|------------------|--------------------|
|                                 |                        | 120 Hz<br>(Ω) | 120 Hz<br>(Ω) |   |                  |                    |
| <b>10 WVdc ( 15 Vdc Surge )</b> |                        |               |               |   |                  |                    |
| 160,000                         | CG164U010X5L           | 0.006         | 27.1          | 3   | 5.625            |                    |
| <b>16 WVdc ( 20 Vdc Surge )</b> |                        |               |               |   |                  |                    |
| 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            |                    |

| Cap<br>(µF)                     | Catalog<br>Part Number | Typical ESR   |               | Max Ripple<br>120 Hz<br>+85 °C<br>(A) RMS | Dia.<br>(Inches) | Length<br>(Inches) |
|---------------------------------|------------------------|---------------|---------------|---|------------------|--------------------|
|                                 |                        | 120 Hz<br>(Ω) | 120 Hz<br>(Ω) |   |                  |                    |
| <b>16 WVdc ( 20 Vdc Surge )</b> |                        |               |               |   |                  |                    |
| 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<br>(µF)                      | Catalog<br>Part Number | Typical              |                             | Max Ripple       |                    |
|----------------------------------|------------------------|----------------------|-----------------------------|------------------|--------------------|
|                                  |                        | ESR<br>120 Hz<br>(Ω) | 120 Hz<br>+85 °C<br>(A) RMS | Dia.<br>(Inches) | Length<br>(Inches) |
| <b>25 WVdc ( 40 Vdc Surge )</b>  |                        |                      |                             |                  |                    |
| 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              |
| <b>35 WVdc ( 50 Vdc Surge )</b>  |                        |                      |                             |                  |                    |
| 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              |
| <b>50 WVdc ( 75 Vdc Surge )</b>  |                        |                      |                             |                  |                    |
| 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              |
| <b>75 WVdc ( 100 Vdc Surge )</b> |                        |                      |                             |                  |                    |
| 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<br>(µF)                       | Catalog<br>Part Number | Typical              |                             | Max Ripple       |                    |
|-----------------------------------|------------------------|----------------------|-----------------------------|------------------|--------------------|
|                                   |                        | ESR<br>120 Hz<br>(Ω) | 120 Hz<br>+85 °C<br>(A) RMS | Dia.<br>(Inches) | Length<br>(Inches) |
| <b>75 WVdc ( 100 Vdc Surge )</b>  |                        |                      |                             |                  |                    |
| 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              |
| <b>100 WVdc ( 135 Vdc Surge )</b> |                        |                      |                             |                  |                    |
| 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              |
| <b>150 WVdc ( 185 Vdc Surge )</b> |                        |                      |                             |                  |                    |
| 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              |
| <b>200 WVdc ( 250 Vdc Surge )</b> |                        |                      |                             |                  |                    |
| 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              |
| <b>250 WVdc ( 300 Vdc Surge )</b> |                        |                      |                             |                  |                    |
| 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              |
| <b>300 WVdc ( 350 Vdc Surge )</b> |                        |                      |                             |                  |                    |
| 525                               | CG5250T300V3C          | 0.095                | 4.0                         | 2.000            | 3.125              |
| <b>350 WVdc ( 400 Vdc Surge )</b> |                        |                      |                             |                  |                    |
| 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              |
| <b>400 WVdc ( 475 Vdc Surge )</b> |                        |                      |                             |                  |                    |
| 325                               | CG3250T400V4C          | 0.220                | 3.0                         | 2.000            | 4.125              |
| <b>450 WVdc ( 525 Vdc Surge )</b> |                        |                      |                             |                  |                    |
| 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              |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- 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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