

# 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

[RoHS Compliant](#)

### 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<br>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><br>(μF)          | Catalog<br><br>Part Number | Typical           | Max Ripple            | Dia.<br><br>(Inches) | Length<br><br>(Inches) |
|--------------------------|----------------------------|-------------------|-----------------------|----------------------|------------------------|
|                          |                            | ESR               | 120 Hz                |                      |                        |
|                          |                            | 120 Hz<br><br>(Ω) | +85 °C<br><br>(A) RMS |                      |                        |
| 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                  |

| Cap<br><br>(μF)          | Catalog<br><br>Part Number | Typical           | Max Ripple            | Dia.<br><br>(Inches) | Length<br><br>(Inches) |
|--------------------------|----------------------------|-------------------|-----------------------|----------------------|------------------------|
|                          |                            | ESR               | 120 Hz                |                      |                        |
|                          |                            | 120 Hz<br><br>(Ω) | +85 °C<br><br>(A) RMS |                      |                        |
| 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<br>(µF)               | Catalog<br>Part Number | Typical       | Max Ripple        | Dia.<br>(Inches) | Length<br>(Inches) |
|---------------------------|------------------------|---------------|-------------------|------------------|--------------------|
|                           |                        | ESR           | 120 Hz            |                  |                    |
|                           |                        | 120 Hz<br>(Ω) | +85 °C<br>(A) RMS |                  |                    |
| 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<br>(µF)                | Catalog<br>Part Number | Typical              | Max Ripple                  | Dia.<br>(Inches) | Length<br>(Inches) |
|----------------------------|------------------------|----------------------|-----------------------------|------------------|--------------------|
|                            |                        | ESR<br>120 Hz<br>(Ω) | 120 Hz<br>+85 °C<br>(A) RMS |                  |                    |
| 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 ) |                        |                      |                             |                  |                    |
| 110                        | CG111T450R4C           | 1.220                | 1.0                         | 1.375            | 4.125              |
| 240                        | CG241T450V4C           | 0.330                | 2.4                         | 2.000            | 4.125              |

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| <a href="#"><u>CG273U016V3C</u></a>  | <a href="#"><u>CG232U035R2C</u></a>  | <a href="#"><u>CG132U100U3C</u></a>  | <a href="#"><u>CG732U050W4C</u></a>  | <a href="#"><u>CG801U050R2C</u></a> | <a href="#"><u>CG502U050U3C</u></a>  |
| <a href="#"><u>CG562U150X3L</u></a>  | <a href="#"><u>CG153U050W4C</u></a>  | <a href="#"><u>CG792U075W4C</u></a>  | <a href="#"><u>CG403U016V4C</u></a>  | <a href="#"><u>CG432U035R3C</u></a> | <a href="#"><u>CG632U025R3C</u></a>  |
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| <a href="#"><u>CG652U016R2C</u></a>  | <a href="#"><u>CG152U075R4C</u></a>  | <a href="#"><u>CG101T350R2C</u></a>  | <a href="#"><u>CG102T200V4C</u></a>  | <a href="#"><u>CG102U075R3C</u></a> | <a href="#"><u>CG102U100R4C</u></a>  |
| <a href="#"><u>CG103U025U3C</u></a>  | <a href="#"><u>CG103U050X4C</u></a>  | <a href="#"><u>CG1052U016V3C</u></a> | <a href="#"><u>CG111T450R4C</u></a>  | <a href="#"><u>CG112U035R2C</u></a> | <a href="#"><u>CG113U035U4C</u></a>  |
| <a href="#"><u>CG113U035W4C</u></a>  | <a href="#"><u>CG113U075X4C</u></a>  | <a href="#"><u>CG123U016R3C</u></a>  | <a href="#"><u>CG1252U075X5L</u></a> | <a href="#"><u>CG141T250R2C</u></a> | <a href="#"><u>CG143U035V4C</u></a>  |
| <a href="#"><u>CG152U025R2C</u></a>  | <a href="#"><u>CG152U050R3C</u></a>  | <a href="#"><u>CG152U075R3C</u></a>  | <a href="#"><u>CG1551U150V4C</u></a> | <a href="#"><u>CG164U010X5L</u></a> | <a href="#"><u>CG1651T200W4C</u></a> |
| <a href="#"><u>CG1652U050X5L</u></a> | <a href="#"><u>CG172U100W4C</u></a>  | <a href="#"><u>CG181T200R2C</u></a>  | <a href="#"><u>CG181T350R3C</u></a>  | <a href="#"><u>CG183U016R4C</u></a> | <a href="#"><u>CG202T350X5L</u></a>  |
| <a href="#"><u>CG202U050R4C</u></a>  | <a href="#"><u>CG202U075U3C</u></a>  | <a href="#"><u>CG203U025X4C</u></a>  | <a href="#"><u>CG212U035R3C</u></a>  | <a href="#"><u>CG213U016U3C</u></a> | <a href="#"><u>CG223U035W4C</u></a>  |
| <a href="#"><u>CG2251U100V4C</u></a> | <a href="#"><u>CG241T450V4C</u></a>  | <a href="#"><u>CG252U050U3C</u></a>  | <a href="#"><u>CG252U075V3C</u></a>  | <a href="#"><u>CG252U100V4C</u></a> | <a href="#"><u>CG252U150W4C</u></a>  |
| <a href="#"><u>CG262U075U3C</u></a>  | <a href="#"><u>CG2750U150R2C</u></a> | <a href="#"><u>CG282U025R3C</u></a>  | <a href="#"><u>CG292U050R3C</u></a>  | <a href="#"><u>CG302T250X5L</u></a> | <a href="#"><u>CG323U025W4C</u></a>  |
| <a href="#"><u>CG332U025R2C</u></a>  | <a href="#"><u>CG332U050V3C</u></a>  | <a href="#"><u>CG332U075V3C</u></a>  | <a href="#"><u>CG333U035X4C</u></a>  | <a href="#"><u>CG333U050X5L</u></a> | <a href="#"><u>CG3451U075V4C</u></a> |
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| <a href="#"><u>CG402U100W4C</u></a>  | <a href="#"><u>CG432U050R4C</u></a>  | <a href="#"><u>CG451T200R4C</u></a>  | <a href="#"><u>CG452U025U3C</u></a>  | <a href="#"><u>CG452U050V4C</u></a> | <a href="#"><u>CG483U025X4C</u></a>  |
| <a href="#"><u>CG492U075V4C</u></a>  | <a href="#"><u>CG501U150R3C</u></a>  | <a href="#"><u>CG5250T300V3C</u></a> | <a href="#"><u>CG551T200U3C</u></a>  | <a href="#"><u>CG551T350V4C</u></a> | <a href="#"><u>CG601T250V3C</u></a>  |
| <a href="#"><u>CG601U075R2C</u></a>  | <a href="#"><u>CG602U025V3C</u></a>  | <a href="#"><u>CG652U050V3C</u></a>  | <a href="#"><u>CG742U050U4C</u></a>  |                                     |                                      |