

CD11GC series

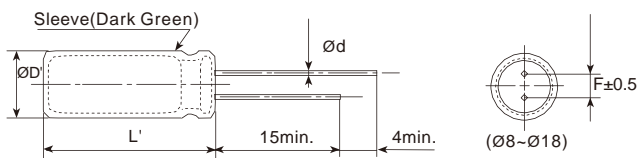


- Endurance: +130°C 4,000~5,000 hours +105°C 15,000~20,000 hours
- Withstand high temperature, extremely long life
- Suitable for output circuit and input circuit of LED driving power, electronic ballast and electronic energy saving lamp.
- RoHS Compliant

SPECIFICATIONS

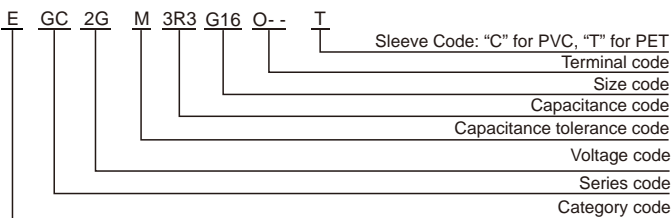
| Items | Characteristics | | | | | | | | |
|--|--|-------------------------------------|------|--|------|------|-------------|---------------------------|-------------------------|
| Category Temperature Range | -40~+130°C(160~450 V _{dc}) | | | | | | | | |
| Rated Voltage Range | 160~450 V _{dc} | | | | | | | | |
| Capacitance Tolerance | ±20%(M) (at 20°C,120Hz) | | | | | | | | |
| Leakage Current | 160~400 V _{dc} | 450 V _{dc} | | Where, I: Max.leakage current (μA),C:Nominal capacitance (μF), V: Rated voltage (V) | | | | (at 20°C after 2 minutes) | |
| | I 0.02CV+10μA | I 0.03CV+10μA | | | | | | | |
| Dissipation Factor (tan δ) | Rated Voltage(V _{dc}) | 160 | 200 | 250 | 350 | 400 | 450 | (at 20°C,120Hz) | |
| | tan δ (max.) | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 | | |
| Low Temperature Characteristics (Max. Impedance Ratio) | Rated Voltage(V _{dc}) | 160 | 200 | 250 | 350 | 400 | 450 | (at 120Hz) | |
| | Z(-25°C)/Z(+20°C) | 3 | 3 | 3 | 5 | 5 | 6 | | |
| | Z(-40°C)/Z(+20°C) | 6 | 6 | 6 | 6 | 6 | 9 | | |
| Endurance | The specifications listed below shall be met when the capacitors are restored to 20°C after DC voltage plus rated ripple current is applied for a specified period of time at 130°C or 105°C, the peak voltage shall not exceed the rated voltage. | | | | | | | | |
| | Capacitance Change | ±30% of the initial value | | | | | Height (mm) | 130°C Load life (hours) | 105°C Load life (hours) |
| | D.F. (tan δ) | 300% of the initial specified value | | | | | L 10 | 4,000 | 15,000 |
| | Leakage Current | The initial specified value | | | | | L>10 | 5,000 | 20,000 |
| Shelf Life | The following specifications shall be satisfied when the capacitors are restored to 20°C after leaving them under no load at 105°C for 1,000 hours. | | | | | | | | |
| | Capacitance Change | ±20% of the initial value | | | | | | | |
| | D.F. (tan δ) | 200% of the initial specified value | | | | | | | |
| | Leakage Current | 200% of the initial specified value | | | | | | | |

DIMENSIONS[mm]



| | | | | | |
|-----|------------|-----|------|-----|-----|
| ØD | 8 | 10 | 12.5 | 16 | 18 |
| Ød | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 |
| F | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| ØD' | ØD+0.5max. | | | | |
| L' | L+2max. | | | | |

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

| | | | | | |
|---------------------------------|-----------|------|------|------|------|
| | Freq.(Hz) | 120 | 1k | 10k | 100k |
| Rated voltage(V _{dc}) | | | | | |
| 160~450 | | 0.50 | 0.80 | 0.90 | 1.00 |

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■ STANDARD RATINGS (Rated ripple current:mArms/130°C 100kHz)

| WV (Vdc) | Cap (μF) | Size DxL (mm) | Rated ripple current | Part Number |
|----------|----------|---------------|----------------------|----------------|
| 160(2C) | 3.3 | 8x12 | 70 | EGC2CM3R3F12OT |
| | 4.7 | 8x12 | 77 | EGC2CM4R7F12OT |
| | | 8x16 | 82 | EGC2CM5R6F16OT |
| | 5.6 | 10x9 | 80 | EGC2CM5R6G09OT |
| | 6.8 | 8x16 | 88 | EGC2CM6R8F16OT |
| | | 10x9 | 145 | EGC2CM8R2G09OT |
| | 8.2 | 10x16 | 183 | EGC2CM8R2G16OT |
| | | 10x9 | 190 | EGC2CM100G09OT |
| | 10 | 10x16 | 223 | EGC2CM100G16OT |
| | | 15 | 10x16 | 300 |
| | 22 | 10x20 | 400 | EGC2CM220G20OT |
| | 33 | 12.5x20 | 480 | EGC2CM330W20OT |
| | 47 | 12.5x25 | 590 | EGC2CM470W25OT |
| | 68 | 16x25 | 750 | EGC2CM680L25OT |
| | 82 | 16x25 | 825 | EGC2CM820L25OT |
| | | 16x25 | 960 | EGC2CM101L25OT |
| | 100 | 18x20 | 960 | EGC2CM101M20OT |
| | | 18x30 | 1050 | EGC2CM151M30OT |
| 220 | 18x35 | 1500 | EGC2CM221M35OT | |
| 200(2D) | 2.8 | 8x12 | 64 | EGC2DM2R8F12OT |
| | 3.3 | 8x12 | 73 | EGC2DM3R3F12OT |
| | | 8x16 | 126 | EGC2DM4R7F16OT |
| | 4.7 | 10x9 | 100 | EGC2DM4R7G09OT |
| | | 10x12 | 126 | EGC2DM4R7G12OT |
| | 5.6 | 8x16 | 148 | EGC2DM5R6F16OT |
| | | 10x9 | 120 | EGC2DM5R6G09OT |
| | 6.8 | 8x16 | 160 | EGC2DM6R8F16OT |
| | | 10x9 | 145 | EGC2DM6R8G09OT |
| | 8.2 | 10x16 | 200 | EGC2DM6R8G16OT |
| | | 10x9 | 165 | EGC2DM8R2G09OT |
| | 10 | 10x16 | 203 | EGC2DM8R2G16OT |
| | | 10x9 | 215 | EGC2DM100G09OT |
| | 10 | 10x16 | 230 | EGC2DM100G16OT |
| | | 10x20 | 245 | EGC2DM100G20OT |
| | 15 | 10x20 | 327 | EGC2DM150G20OT |
| | 22 | 12.5x20 | 430 | EGC2DM220W20OT |
| | 33 | 12.5x20 | 500 | EGC2DM330W20OT |
| | 47 | 12.5x25 | 650 | EGC2DM470W25OT |
| | | 16x20 | 650 | EGC2DM470L20OT |
| | 68 | 16x25 | 750 | EGC2DM680L25OT |
| | 82 | 16x30 | 900 | EGC2DM820L30OT |
| | | 18x25 | 900 | EGC2DM820M25OT |
| | 100 | 16x30 | 1100 | EGC2DM101L30OT |
| 18x25 | | 1100 | EGC2DM101M25OT | |
| 150 | 18x35 | 1350 | EGC2DM151M35OT | |
| 250(2E) | 2.2 | 8x12 | 64 | EGC2EM2R2F12OT |
| | 2.8 | 8x12 | 72 | EGC2EM2R8F12OT |
| | 3.3 | 8x12 | 80 | EGC2EM3R3F12OT |
| | 4.7 | 8x16 | 133 | EGC2EM4R7F16OT |
| | | 10x9 | 120 | EGC2EM5R6G09OT |
| | 5.6 | 10x16 | 150 | EGC2EM5R6G16OT |
| | | 10x16 | 169 | EGC2EM6R8G16OT |
| | 6.8 | 10x9 | 165 | EGC2EM8R2G09OT |
| | | 10x16 | 203 | EGC2EM8R2G16OT |
| | 10 | 10x16 | 238 | EGC2EM100G16OT |
| | | 10x20 | 250 | EGC2EM100G20OT |
| | 15 | 10x20 | 327 | EGC2EM150G20OT |
| | 22 | 12.5x20 | 430 | EGC2EM220W20OT |
| | 33 | 12.5x25 | 530 | EGC2EM330W25OT |
| | | 16x20 | 530 | EGC2EM330L20OT |
| | 47 | 16x25 | 690 | EGC2EM470L25OT |
| | | 18x20 | 690 | EGC2EM470M20OT |
| | 68 | 16x30 | 780 | EGC2EM680L30OT |
| | | 18x25 | 780 | EGC2EM680M25OT |
| | 82 | 18x25 | 900 | EGC2EM820M25OT |
| | 100 | 18x30 | 970 | EGC2EM101M30OT |

| WV (Vdc) | Cap (μF) | Size DxL (mm) | Rated ripple current | Part Number |
|----------|----------|---------------|----------------------|----------------|
| 350(2V) | 1 | 8x12 | 49 | EGC2VM010F12OT |
| | 1.5 | 8x16 | 73 | EGC2VM1R5F16OT |
| | | 8x16 | 75 | EGC2VM1R8F16OT |
| | 1.8 | 10x9 | 65 | EGC2VM1R8G09OT |
| | | 10x9 | 75 | EGC2VM2R2G09OT |
| | 2.2 | 10x16 | 90 | EGC2VM2R2G16OT |
| | | 10x16 | 95 | EGC2VM2R8G16OT |
| | 3.3 | 10x16 | 100 | EGC2VM3R3G16OT |
| | 4.7 | 10x20 | 142 | EGC2VM4R7G20OT |
| | 5.6 | 10x20 | 152 | EGC2VM5R6G20OT |
| | | 12.5x20 | 165 | EGC2VM5R6W20OT |
| | 6.8 | 10x20 | 190 | EGC2VM6R8G20OT |
| | | 12.5x20 | 200 | EGC2VM6R8W20OT |
| | 8.2 | 12.5x20 | 205 | EGC2VM8R2W20OT |
| | | 12.5x20 | 250 | EGC2VM100W20OT |
| | 10 | 12.5x25 | 270 | EGC2VM100W25OT |
| | | 12.5x25 | 335 | EGC2VM150W25OT |
| | 15 | 16x20 | 335 | EGC2VM150L20OT |
| 16x25 | | 450 | EGC2VM220L25OT | |
| 33 | 16x30 | 535 | EGC2VM330L30OT | |
| | 16x35 | 555 | EGC2VM330L35OT | |
| 47 | 18x30 | 700 | EGC2VM470M30OT | |
| | 18x35 | 750 | EGC2VM470M35OT | |
| 68 | 18x40 | 900 | EGC2VM680M40OT | |
| 400(2G) | 1 | 8x12 | 54 | EGC2GM010F12OT |
| | 1.5 | 8x16 | 60 | EGC2GM010F16OT |
| | | 8x16 | 73 | EGC2GM1R5F16OT |
| | 1.8 | 8x16 | 75 | EGC2GM1R8F16OT |
| | | 10x9 | 65 | EGC2GM1R8G09OT |
| | 2.2 | 10x9 | 76 | EGC2GM2R2G09OT |
| | | 10x16 | 92 | EGC2GM2R2G16OT |
| | 2.8 | 10x16 | 100 | EGC2GM2R8G16OT |
| | | 10x16 | 105 | EGC2GM3R3G16OT |
| | 3.3 | 10x20 | 120 | EGC2GM3R3G20OT |
| | | 10x20 | 142 | EGC2GM4R7G20OT |
| | 4.7 | 12.5x20 | 150 | EGC2GM4R7W20OT |
| | | 12.5x20 | 165 | EGC2GM5R6W20OT |
| | 6.8 | 12.5x20 | 225 | EGC2GM6R8W20OT |
| | | 12.5x20 | 230 | EGC2GM8R2W20OT |
| | 10 | 12.5x25 | 280 | EGC2GM100W25OT |
| | | 12.5x25 | 335 | EGC2GM150W25OT |
| | 15 | 16x20 | 335 | EGC2GM150L20OT |
| | | 16x25 | 480 | EGC2GM220L25OT |
| | 22 | 16x30 | 500 | EGC2GM220L30OT |
| | | 18x30 | 635 | EGC2GM330M30OT |
| | 47 | 18x35 | 750 | EGC2GM470M35OT |
| | 68 | 18x40 | 900 | EGC2GM680M40OT |
| | 100 | 18x50 | 1030 | EGC2GM101M50OT |
| 450(2W) | 1.5 | 8x16 | 70 | EGC2WM1R5F16OT |
| | 1.8 | 8x16 | 74 | EGC2WM1R8F16OT |
| | | 10x16 | 77 | EGC2WM2R2G16OT |
| | 2.8 | 10x16 | 80 | EGC2WM2R8G16OT |
| | | 10x16 | 88 | EGC2WM3R3G16OT |
| | 3.3 | 10x20 | 92 | EGC2WM3R3G20OT |
| | | 10x20 | 104 | EGC2WM4R7G20OT |
| | 5.6 | 12.5x20 | 144 | EGC2WM5R6W20OT |
| | | 12.5x20 | 175 | EGC2WM6R8W20OT |
| | 8.2 | 12.5x20 | 183 | EGC2WM8R2W20OT |
| | | 12.5x20 | 225 | EGC2WM100W20OT |
| | 15 | 12.5x25 | 294 | EGC2WM150W25OT |
| | | 16x25 | 395 | EGC2WM220L25OT |
| | 22 | 16x30 | 420 | EGC2WM220L30OT |
| | | 18x30 | 500 | EGC2WM330M30OT |
| | 47 | 18x35 | 615 | EGC2WM470M35OT |
| | 68 | 18x40 | 710 | EGC2WM680M40OT |
| | 100 | 18x50 | 840 | EGC2WM101M50OT |