

# CD11GAS series

- Miniaturized, long life
- Endurance: +105°C 8,000~10,000 hours
- RoHS Compliant

Upgrade

CD11GA



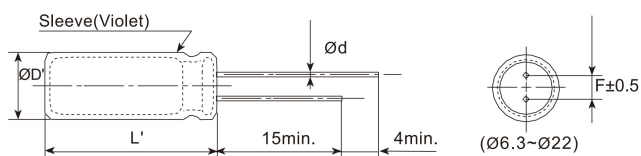
CD11GAS



## SPECIFICATIONS

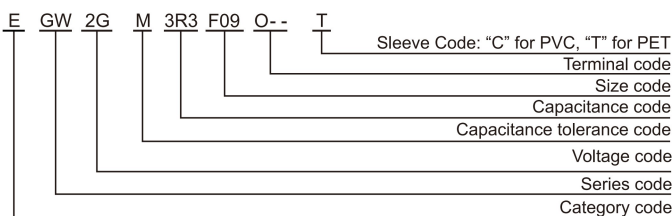
| Items                                                     | Characteristics                                                                                                                                                                                                                                       |                         |                                      |                                                                                                                            |      |      |      |      |      |      |                 |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|-----------------|
| Category Temperature Range                                | -40~+105℃                                                                                                                                                                                                                                             |                         |                                      |                                                                                                                            |      |      |      |      |      |      |                 |
| Rated Voltage Range                                       | 140~500 V <sub>dc</sub>                                                                                                                                                                                                                               |                         |                                      |                                                                                                                            |      |      |      |      |      |      |                 |
| Capacitance Tolerance                                     | ±20%(M) <div>(at 20℃, 120Hz)</div>                                                                                                                                                                                                                    |                         |                                      |                                                                                                                            |      |      |      |      |      |      |                 |
| Leakage Current                                           | 140~400 V <sub>dc</sub>                                                                                                                                                                                                                               | 450~500 V <sub>dc</sub> |                                      | Where, I: Max.leakage current (μA),C:Nominal capacitance (μF),<br>V: Rated voltage (V) <div>(at 20℃ after 2 minutes)</div> |      |      |      |      |      |      |                 |
|                                                           | I≤0.02CV+10μA                                                                                                                                                                                                                                         | I≤0.03CV+10μA           |                                      |                                                                                                                            |      |      |      |      |      |      |                 |
| Dissipation Factor (tanδ)                                 | Rated Voltage(V <sub>dc</sub> )                                                                                                                                                                                                                       | 140                     | 160                                  | 200                                                                                                                        | 250  | 315  | 350  | 400  | 450  | 500  | (at 20℃, 120Hz) |
|                                                           | tanδ (max.)                                                                                                                                                                                                                                           | 0.15                    | 0.15                                 | 0.15                                                                                                                       | 0.15 | 0.20 | 0.20 | 0.20 | 0.20 | 0.24 |                 |
| Low Temperature Characteristics<br>(Max. Impedance Ratio) | Rated Voltage(V <sub>dc</sub> )                                                                                                                                                                                                                       | 140                     | 160                                  | 200                                                                                                                        | 250  | 315  | 350  | 400  | 450  | 500  | (at 120Hz)      |
|                                                           | Z(-25℃)/Z(+20℃)                                                                                                                                                                                                                                       | 3                       | 3                                    | 3                                                                                                                          | 3    | 5    | 5    | 5    | 6    | 6    |                 |
|                                                           | Z(-40℃)/Z(+20℃)                                                                                                                                                                                                                                       | 6                       | 6                                    | 6                                                                                                                          | 6    | 6    | 6    | 6    | 9    | 15   |                 |
| Endurance                                                 | The specifications listed below shall be met when the capacitors are restored to 20℃ after DC voltage plus the rated ripple current is applied for 10,000 hours at 105℃(WV:500V for 8,000 hours),the peak voltage shall not exceed the rated voltage. |                         |                                      |                                                                                                                            |      |      |      |      |      |      |                 |
|                                                           | Capacitance Change                                                                                                                                                                                                                                    |                         | ≤±20% of the initial value           |                                                                                                                            |      |      |      |      |      |      |                 |
|                                                           | D.F. (tanδ)                                                                                                                                                                                                                                           |                         | ≤200% of the initial specified value |                                                                                                                            |      |      |      |      |      |      |                 |
|                                                           | Leakage Current                                                                                                                                                                                                                                       |                         | ≤The initial specified value         |                                                                                                                            |      |      |      |      |      |      |                 |
| Shelf Life                                                | The following specifications shall be satisfied when the capacitors are restored to 20℃ after leaving them under no load at 105℃ for 1,000 hours.                                                                                                     |                         |                                      |                                                                                                                            |      |      |      |      |      |      |                 |
|                                                           | Capacitance Change                                                                                                                                                                                                                                    |                         | ≤±20% of the initial value           |                                                                                                                            |      |      |      |      |      |      |                 |
|                                                           | D.F. (tanδ)                                                                                                                                                                                                                                           |                         | ≤200% of the initial specified value |                                                                                                                            |      |      |      |      |      |      |                 |
|                                                           | Leakage Current                                                                                                                                                                                                                                       |                         | ≤200% of the initial specified value |                                                                                                                            |      |      |      |      |      |      |                 |

## DIMENSIONS[mm]



|     |            |     |     |      |     |     |     |
|-----|------------|-----|-----|------|-----|-----|-----|
| ØD  | 6.3        | 8   | 10  | 12.5 | 16  | 18  | 22  |
| Ød  | 0.5        | 0.5 | 0.6 | 0.6  | 0.6 | 0.8 | 0.8 |
| F   | 2.5        | 3.5 | 5.0 | 5.0  | 7.5 | 7.5 | 10  |
| 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 <sub>dc</sub> ) |      |      |      |      |
| 140~500                         | 0.50 | 0.80 | 0.90 | 1.00 |

# CD11GAS series

■ STANDARD RATINGS (Rated ripple current: mArms/105°C 100kHz)

| WV<br>(Vdc) | Cap<br>(μF) | Size<br>ΦD×L(mm) | Rated ripple<br>current | Part Number    |                |
|-------------|-------------|------------------|-------------------------|----------------|----------------|
| 140(2A)     | 10          | 6.3×12           | 115                     | EGW2AM100E12OT |                |
|             | 15          | 6.3×12           | 145                     | EGW2AM150E12OT |                |
|             | 22          | 8×12             | 270                     | EGW2AM220F12OT |                |
|             | 33          | 10×12            | 380                     | EGW2AM330G12OT |                |
|             | 47          | 8×20             | 480                     | EGW2AM470F20OT |                |
|             | 68          | 10×20            | 570                     | EGW2AM680G20OT |                |
|             | 100         | 12.5×16          | 710                     | EGW2AM101W16OT |                |
|             | 150         | 12.5×25          | 980                     | EGW2AM151W25OT |                |
|             | 220         | 16×20            | 1320                    | EGW2AM221L20OT |                |
| 160(2C)     | 1           | 6.3×7            | 36                      | EGW2CM010E07OT |                |
|             |             | 6.3×9            | 40                      | EGW2CM010E09OT |                |
|             | 1.5         | 6.3×7            | 40                      | EGW2CM1R5E07OT |                |
|             |             | 6.3×9            | 45                      | EGW2CM1R5E09OT |                |
|             | 1.8         | 6.3×7            | 45                      | EGW2CM1R8E07OT |                |
|             |             | 6.3×9            | 50                      | EGW2CM1R8E09OT |                |
|             | 2.2         | 6.3×7            | 50                      | EGW2CM2R2E07OT |                |
|             |             | 6.3×9            | 55                      | EGW2CM2R2E09OT |                |
|             | 2.8         | 6.3×9            | 70                      | EGW2CM2R8E09OT |                |
|             |             | 6.3×12           | 78                      | EGW2CM2R8E12OT |                |
|             | 3.3         | 6.3×9            | 85                      | EGW2CM3R3E09OT |                |
|             |             | 6.3×12           | 92                      | EGW2CM3R3E12OT |                |
|             | 4.7         | 6.3×9            | 92                      | EGW2CM4R7E09OT |                |
|             |             | 6.3×12           | 97                      | EGW2CM4R7E12OT |                |
|             | 5.6         | 6.3×9            | 96                      | EGW2CM5R6E09OT |                |
|             |             | 6.3×12           | 100                     | EGW2CM5R6E12OT |                |
|             | 6.8         | 6.3×9            | 100                     | EGW2CM6R8E09OT |                |
|             |             | 6.3×12           | 107                     | EGW2CM6R8E12OT |                |
|             | 8.2         | 8×9              | 107                     | EGW2CM6R8F09OT |                |
|             |             | 6.3×12           | 150                     | EGW2CM8R2E12OT |                |
|             | 10          | 8×9              | 150                     | EGW2CM8R2F09OT |                |
|             |             | 8×9              | 190                     | EGW2CM100F09OT |                |
|             | 15          | 8×12             | 240                     | EGW2CM100F12OT |                |
|             |             | 8×9              | 270                     | EGW2CM150F09OT |                |
|             | 22          | 8×12             | 290                     | EGW2CM150F12OT |                |
|             |             | 8×12             | 390                     | EGW2CM220F12OT |                |
|             |             | 10×12            | 430                     | EGW2CM220G12OT |                |
|             | 33          | 10×16            | 520                     | EGW2CM330G16OT |                |
|             | 47          | 10×16            | 680                     | EGW2CM470G16OT |                |
|             | 56          | 10×20            | 800                     | EGW2CM560G20OT |                |
|             | 68          | 10×20            | 950                     | EGW2CM680G20OT |                |
|             |             | 12.5×16          | 1060                    | EGW2CM680W16OT |                |
|             | 82          | 12.5×20          | 1260                    | EGW2CM820W20OT |                |
|             | 100         | 12.5×20          | 1350                    | EGW2CM101W20OT |                |
|             | 150         | 12.5×25          | 1750                    | EGW2CM151W25OT |                |
|             |             | 16×20            | 1790                    | EGW2CM151L20OT |                |
|             | 220         | 16×25            | 2130                    | EGW2CM221L25OT |                |
|             | 330         | 18×30            | 2520                    | EGW2CM331M30OT |                |
|             | 470         | 18×35            | 2880                    | EGW2CM471M35OT |                |
|             | 200(2D)     | 1                | 6.3×7                   | 45             | EGW2DM010E07OT |
|             |             |                  | 6.3×9                   | 50             | EGW2DM010E09OT |
|             |             | 1.2              | 6.3×7                   | 50             | EGW2DM1R2E07OT |
|             |             |                  | 6.3×9                   | 55             | EGW2DM1R2E09OT |
|             |             | 1.5              | 6.3×7                   | 55             | EGW2DM1R5E07OT |
|             |             |                  | 6.3×9                   | 60             | EGW2DM1R5E09OT |
|             |             | 1.8              | 6.3×7                   | 60             | EGW2DM1R8E07OT |
|             |             |                  | 6.3×9                   | 66             | EGW2DM1R8E09OT |
| 2.2         |             | 6.3×9            | 72                      | EGW2DM2R2E09OT |                |
|             |             | 6.3×12           | 81                      | EGW2DM2R2E12OT |                |
| 2.8         |             | 6.3×9            | 81                      | EGW2DM2R8E09OT |                |
|             |             | 6.3×12           | 88                      | EGW2DM2R8E12OT |                |
| 3.3         |             | 6.3×9            | 105                     | EGW2DM3R3E09OT |                |
|             |             | 6.3×12           | 112                     | EGW2DM3R3E12OT |                |
| 4.7         |             | 6.3×12           | 115                     | EGW2DM4R7E12OT |                |
|             |             | 8×9              | 117                     | EGW2DM4R7F09OT |                |
|             |             |                  | 8×12                    | 120            | EGW2DM4R7F12OT |

| WV<br>(Vdc) | Cap<br>(μF) | Size<br>ΦD×L(mm) | Rated ripple<br>current | Part Number    |
|-------------|-------------|------------------|-------------------------|----------------|
| 200(2D)     | 5.6         | 8×9              | 120                     | EGW2DM5R6F09OT |
|             |             | 8×12             | 126                     | EGW2DM5R6F12OT |
|             | 6.8         | 8×9              | 126                     | EGW2DM6R8F09OT |
|             |             | 8×12             | 132                     | EGW2DM6R8F12OT |
|             | 8.2         | 8×9              | 180                     | EGW2DM8R2F09OT |
|             |             | 8×12             | 200                     | EGW2DM8R2F12OT |
|             | 10          | 8×9              | 190                     | EGW2DM100F09OT |
|             |             | 8×12             | 230                     | EGW2DM100F12OT |
|             | 15          | 8×16             | 310                     | EGW2DM150F16OT |
|             |             | 10×12            | 310                     | EGW2DM150G12OT |
|             | 22          | 10×16            | 475                     | EGW2DM220G16OT |
|             |             | 10×20            | 650                     | EGW2DM330G20OT |
|             | 33          | 12.5×16          | 650                     | EGW2DM330W16OT |
|             |             | 12.5×16          | 880                     | EGW2DM470W16OT |
|             | 47          | 12.5×20          | 980                     | EGW2DM470W20OT |
|             |             | 12.5×25          | 1300                    | EGW2DM680W25OT |
| 250(2E)     | 68          | 16×20            | 1380                    | EGW2DM820L20OT |
|             |             | 16×20            | 1420                    | EGW2DM101L20OT |
|             | 100         | 16×25            | 1494                    | EGW2DM101L25OT |
|             |             | 16×25            | 1680                    | EGW2DM151L25OT |
|             | 150         | 16×30            | 1989                    | EGW2DM151L30OT |
|             |             | 18×30            | 2150                    | EGW2DM221M30OT |
|             | 220         | 18×35            | 2250                    | EGW2DM331M35OT |
|             |             | 18×35            | 2250                    | EGW2DM331M35OT |
|             | 1           | 6.3×7            | 45                      | EGW2EM010E07OT |
|             |             | 6.3×9            | 50                      | EGW2EM010E09OT |
|             | 1.2         | 6.3×7            | 50                      | EGW2EM1R2E07OT |
|             |             | 6.3×9            | 55                      | EGW2EM1R2E09OT |
|             | 1.5         | 6.3×7            | 55                      | EGW2EM1R5E07OT |
|             |             | 6.3×9            | 60                      | EGW2EM1R5E09OT |
|             | 1.8         | 6.3×7            | 61                      | EGW2EM1R8E07OT |
|             |             | 6.3×9            | 70                      | EGW2EM1R8E09OT |
|             | 2.2         | 6.3×9            | 72                      | EGW2EM2R2E09OT |
|             |             | 6.3×12           | 81                      | EGW2EM2R2E12OT |
|             | 2.8         | 6.3×9            | 81                      | EGW2EM2R8E09OT |
|             |             | 6.3×12           | 88                      | EGW2EM2R8E12OT |
|             | 3.3         | 6.3×9            | 102                     | EGW2EM3R3E09OT |
|             |             | 6.3×12           | 112                     | EGW2EM3R3E12OT |
|             | 4.7         | 6.3×9            | 112                     | EGW2EM4R7E09OT |
|             |             | 6.3×12           | 115                     | EGW2EM4R7E12OT |
|             | 5.6         | 8×9              | 115                     | EGW2EM4R7F09OT |
|             |             | 8×12             | 120                     | EGW2EM4R7F12OT |
|             | 6.8         | 8×9              | 120                     | EGW2EM5R6F09OT |
|             |             | 8×12             | 126                     | EGW2EM5R6F12OT |
|             | 8.2         | 8×9              | 145                     | EGW2EM6R8F09OT |
|             |             | 8×12             | 150                     | EGW2EM6R8F12OT |
|             | 10          | 8×12             | 200                     | EGW2EM8R2F12OT |
|             |             | 8×16             | 260                     | EGW2EM8R2F16OT |
|             | 15          | 8×12             | 220                     | EGW2EM100F12OT |
|             |             | 8×16             | 275                     | EGW2EM100F16OT |
|             | 22          | 8×16             | 350                     | EGW2EM150F16OT |
|             |             | 10×12            | 360                     | EGW2EM150G12OT |
|             | 33          | 10×16            | 480                     | EGW2EM220G16OT |
|             |             | 10×20            | 500                     | EGW2EM220G20OT |
|             | 47          | 10×20            | 600                     | EGW2EM330G20OT |
|             |             | 12.5×16          | 600                     | EGW2EM330W16OT |
|             | 68          | 12.5×20          | 660                     | EGW2EM330W20OT |
|             |             | 12.5×16          | 880                     | EGW2EM470W16OT |
|             | 82          | 12.5×20          | 980                     | EGW2EM470W20OT |
|             |             | 12.5×25          | 1180                    | EGW2EM680W25OT |
|             | 100         | 16×20            | 1250                    | EGW2EM820L20OT |
|             |             | 16×20            | 1320                    | EGW2EM820L20OT |
|             | 100         | 16×20            | 1360                    | EGW2EM101L20OT |
|             |             | 16×25            | 1420                    | EGW2EM101L25OT |

# CD11GAS series

■ STANDARD RATINGS (Rated ripple current: mA rms/105°C 100kHz)

| WV (Vdc) | Cap (μF) | Size ΦD×L (mm) | Rated ripple current | Part Number    |
|----------|----------|----------------|----------------------|----------------|
| 250(2E)  | 150      | 16×30          | 1820                 | EGW2EM151L30OT |
|          |          | 18×25          | 1820                 | EGW2EM151M25OT |
|          | 220      | 18×30          | 2150                 | EGW2EM221M30OT |
|          | 330      | 18×40          | 2310                 | EGW2EM331M40OT |
| 315(2F)  | 2.2      | 6.3×9          | 82                   | EGW2FM2R2E09OT |
|          | 3.3      | 6.3×12         | 100                  | EGW2FM3R3E12OT |
|          | 4.7      | 8×9            | 120                  | EGW2FM4R7F09OT |
|          | 5.6      | 8×12           | 142                  | EGW2FM5R6F12OT |
|          | 6.8      | 8×12           | 162                  | EGW2FM6R8F12OT |
|          | 8.2      | 8×12           | 194                  | EGW2FM8R2F12OT |
|          | 10       | 10×12          | 230                  | EGW2FM100G12OT |
|          | 15       | 10×16          | 340                  | EGW2FM150G16OT |
|          | 22       | 10×20          | 460                  | EGW2FM220G20OT |
|          | 33       | 12.5×20        | 600                  | EGW2FM330W20OT |
|          | 47       | 12.5×25        | 680                  | EGW2FM470W25OT |
| 350(2V)  | 1        | 6.3×9          | 55                   | EGW2VM010E09OT |
|          |          | 6.3×12         | 60                   | EGW2VM010E12OT |
|          | 1.2      | 6.3×9          | 60                   | EGW2VM1R2E09OT |
|          |          | 6.3×9          | 65                   | EGW2VM1R5E09OT |
|          | 1.5      | 6.3×12         | 70                   | EGW2VM1R5E12OT |
|          |          | 6.3×9          | 72                   | EGW2VM1R8E09OT |
|          | 1.8      | 6.3×12         | 80                   | EGW2VM1R8E12OT |
|          |          | 6.3×9          | 82                   | EGW2VM2R2E09OT |
|          | 2.2      | 6.3×12         | 86                   | EGW2VM2R2E12OT |
|          |          | 8×9            | 88                   | EGW2VM2R8F09OT |
|          | 2.8      | 8×12           | 95                   | EGW2VM2R8F12OT |
|          |          | 8×9            | 100                  | EGW2VM3R3F09OT |
|          | 3.3      | 8×12           | 108                  | EGW2VM3R3F12OT |
|          |          | 8×9            | 114                  | EGW2VM4R7F09OT |
|          | 4.7      | 8×12           | 120                  | EGW2VM4R7F12OT |
|          |          | 8×12           | 150                  | EGW2VM5R6F12OT |
|          | 5.6      | 8×16           | 162                  | EGW2VM5R6F16OT |
|          |          | 8×12           | 172                  | EGW2VM6R8F12OT |
|          | 6.8      | 8×16           | 190                  | EGW2VM6R8F16OT |
|          |          | 8×16           | 215                  | EGW2VM8R2F16OT |
|          | 8.2      | 10×12          | 215                  | EGW2VM8R2G12OT |
|          |          | 8×20           | 260                  | EGW2VM100F20OT |
|          | 10       | 10×12          | 230                  | EGW2VM100G12OT |
|          |          | 10×16          | 340                  | EGW2VM150G16OT |
|          | 22       | 10×20          | 460                  | EGW2VM220G20OT |
|          |          | 12.5×20        | 600                  | EGW2VM330W20OT |
|          | 33       | 16×20          | 650                  | EGW2VM330L20OT |
|          |          | 16×20          | 700                  | EGW2VM470L20OT |
|          | 47       | 16×25          | 780                  | EGW2VM680L25OT |
|          | 68       | 18×20          | 780                  | EGW2VM680M20OT |
|          |          | 16×30          | 1000                 | EGW2VM820L30OT |
|          | 82       | 18×25          | 1000                 | EGW2VM820M25OT |
|          |          | 18×25          | 1120                 | EGW2VM101M25OT |
|          | 100      | 18×30          | 1210                 | EGW2VM101M30OT |
| 400(2G)  | 1        | 6.3×7          | 61                   | EGW2GM010E07OT |
|          |          | 6.3×9          | 65                   | EGW2GM010E09OT |
|          | 1.2      | 6.3×9          | 68                   | EGW2GM1R2E09OT |
|          |          | 6.3×9          | 70                   | EGW2GM1R5E09OT |
|          | 1.5      | 6.3×12         | 74                   | EGW2GM1R5E12OT |
|          |          | 8×9            | 72                   | EGW2GM1R5F09OT |
|          |          | 6.3×9          | 72                   | EGW2GM1R8E09OT |
|          | 1.8      | 6.3×12         | 80                   | EGW2GM1R8E12OT |
|          |          | 8×9            | 76                   | EGW2GM1R8F09OT |
|          |          | 6.3×9          | 76                   | EGW2GM2R2E09OT |
|          | 2.2      | 6.3×12         | 85                   | EGW2GM2R2E12OT |
|          |          | 8×9            | 85                   | EGW2GM2R2F09OT |
|          |          | 8×12           | 90                   | EGW2GM2R2F12OT |

| WV (Vdc) | Cap (μF) | Size ΦD×L (mm) | Rated ripple current | Part Number    |
|----------|----------|----------------|----------------------|----------------|
| 400(2G)  | 2.8      | 6.3×12         | 90                   | EGW2GM2R8E12OT |
|          |          | 8×9            | 90                   | EGW2GM2R8F09OT |
|          |          | 8×12           | 94                   | EGW2GM2R8F12OT |
|          | 3.3      | 6.3×12         | 90                   | EGW2GM3R3E12OT |
|          |          | 8×9            | 100                  | EGW2GM3R3F09OT |
|          |          | 8×12           | 102                  | EGW2GM3R3F12OT |
|          | 4.7      | 8×10           | 110                  | EGW2GM4R7F10OT |
|          |          | 8×12           | 120                  | EGW2GM4R7F12OT |
|          |          | 10×9           | 120                  | EGW2GM4R7G09OT |
|          |          | 10×12          | 128                  | EGW2GM4R7G12OT |
|          | 5.6      | 8×12           | 145                  | EGW2GM5R6F12OT |
|          |          | 10×12          | 156                  | EGW2GM5R6G12OT |
|          | 6.8      | 8×12           | 172                  | EGW2GM6R8F12OT |
|          |          | 8×16           | 206                  | EGW2GM6R8F16OT |
|          |          | 10×12          | 206                  | EGW2GM6R8G12OT |
|          | 8.2      | 10×12          | 220                  | EGW2GM8R2G12OT |
|          |          | 10×16          | 232                  | EGW2GM8R2G16OT |
|          | 10       | 10×16          | 253                  | EGW2GM100G16OT |
|          |          | 10×20          | 275                  | EGW2GM100G20OT |
|          | 12       | 10×16          | 270                  | EGW2GM120G16OT |
|          |          | 10×20          | 280                  | EGW2GM120G20OT |
|          | 15       | 10×20          | 324                  | EGW2GM150G20OT |
|          |          | 12.5×16        | 324                  | EGW2GM150W16OT |
|          | 22       | 12.5×20        | 480                  | EGW2GM220W20OT |
|          |          | 12.5×25        | 500                  | EGW2GM220W25OT |
|          | 33       | 12.5×25        | 550                  | EGW2GM330W25OT |
|          |          | 16×20          | 585                  | EGW2GM330L20OT |
|          | 47       | 16×20          | 650                  | EGW2GM470L20OT |
|          |          | 16×25          | 730                  | EGW2GM470L25OT |
| 450(2W)  | 1        | 6.3×9          | 76                   | EGW2WM010E09OT |
|          |          | 6.3×12         | 77                   | EGW2WM010E12OT |
|          | 1.2      | 8×9            | 80                   | EGW2WM1R2F09OT |
|          |          | 8×9            | 82                   | EGW2WM1R5F09OT |
|          | 1.5      | 8×12           | 85                   | EGW2WM1R5F12OT |
|          |          | 8×9            | 85                   | EGW2WM1R8F09OT |
|          | 1.8      | 8×12           | 88                   | EGW2WM1R8F12OT |
|          |          | 10×9           | 90                   | EGW2WM1R8G09OT |
|          |          | 8×9            | 86                   | EGW2WM2R2F09OT |
|          | 2.2      | 8×12           | 92                   | EGW2WM2R2F12OT |
|          |          | 10×9           | 92                   | EGW2WM2R2G09OT |
|          | 2.8      | 8×12           | 95                   | EGW2WM2R8F12OT |
|          |          | 10×9           | 95                   | EGW2WM2R8G09OT |
|          |          | 8×12           | 94                   | EGW2WM3R3F12OT |
|          | 3.3      | 10×9           | 98                   | EGW2WM3R3G09OT |
|          |          | 8×12           | 110                  | EGW2WM3R9F12OT |
|          | 3.9      | 10×9           | 115                  | EGW2WM3R9G09OT |
|          |          | 8×12           | 115                  | EGW2WM4R7F12OT |
|          | 4.7      | 10×12          | 123                  | EGW2WM4R7G12OT |
|          |          | 10×16          | 130                  | EGW2WM4R7G16OT |
|          | 5.6      | 10×12          | 142                  | EGW2WM5R6G12OT |
|          |          | 10×16          | 167                  | EGW2WM5R6G16OT |
|          | 6.8      | 10×12          | 175                  | EGW2WM6R8G12OT |
|          |          | 10×16          | 195                  | EGW2WM6R8G16OT |
|          | 8.2      | 10×16          | 220                  | EGW2WM8R2G16OT |
|          |          | 10×20          | 230                  | EGW2WM8R2G20OT |
|          | 10       | 10×16          | 255                  | EGW2WM100G16OT |
|          |          | 10×20          | 300                  | EGW2WM100G20OT |

Radial Type

# CD11GAS series

■ STANDARD RATINGS (Rated ripple current: mA rms/105°C 100kHz)

| WV<br>(Vdc) | Cap<br>(μF) | Size<br>ΦD×L(mm) | Rated ripple<br>current | Part Number    |
|-------------|-------------|------------------|-------------------------|----------------|
| 450(2W)     | 15          | 12.5×16          | 365                     | EGW2WM150W16OT |
|             |             | 12.5×20          | 410                     | EGW2WM150W20OT |
|             |             | 12.5×20          | 480                     | EGW2WM220W20OT |
|             | 22          | 12.5×25          | 530                     | EGW2WM220W25OT |
|             |             | 16×20            | 530                     | EGW2WM220L20OT |
|             | 33          | 16×20            | 600                     | EGW2WM330L20OT |
|             | 47          | 16×25            | 720                     | EGW2WM470L25OT |
|             |             | 16×30            | 800                     | EGW2WM470L30OT |
|             | 56          | 16×30            | 990                     | EGW2WM560L30OT |
|             |             | 18×25            | 1000                    | EGW2WM560M25OT |
|             | 68          | 18×25            | 1150                    | EGW2WM680M25OT |
|             |             | 18×30            | 1230                    | EGW2WM680M30OT |
|             | 82          | 18×30            | 1320                    | EGW2WM820M30OT |
|             | 100         | 18×35            | 1370                    | EGW2WM101M35OT |
| 500(2H)     | 10          | 12.5×20          | 288                     | EGW2HM100W20OT |
|             |             | 12.5×25          | 302                     | EGW2HM100W25OT |
|             | 15          | 12.5×25          | 396                     | EGW2HM150W25OT |
|             |             | 16×20            | 396                     | EGW2HM150L20OT |
|             | 22          | 12.5×35          | 504                     | EGW2HM220W35OT |
|             |             | 16×25            | 504                     | EGW2HM220L25OT |
|             | 33          | 18×25            | 630                     | EGW2HM330M25OT |
|             | 47          | 18×30            | 792                     | EGW2HM470M30OT |
|             | 56          | 18×30            | 860                     | EGW2HM560M30OT |
|             | 68          | 18×35            | 1000                    | EGW2HM680M35OT |
|             |             | 22×35            | 1070                    | EGW2HM680O35OT |
|             | 82          | 22×35            | 1220                    | EGW2HM820O35OT |
|             | 100         | 22×35            | 1420                    | EGW2HM101O35OT |