

CD26G Series

- Dedicated for LED drivers
- High performance, high reliability and high ripple current
- Endurance: 5000-8000 hours at 105°C
- Sleeve color: Gold Print in Black Sleeve



Series Features:

| Item | Characteristics | | | | | | | | | | | | |
|---|---|------|---|------|------|----------|-------------------------------------|-----------|-----------|-----------|-----------|------|--|
| Operating Temperature Range(°C) | - 40 ~ + 105 | | | | | | - 25 ~ + 105 | | | | | | |
| Voltage Range(V) | 6.3 ~ 100 | | | | | | 160 ~ 500 | | | | | | |
| Capacitance Range(µF) | 1-6800 | | | | | | | | | | | | |
| Capacitance Tolerance (20°C,120HZ) | ±20% | | | | | | | | | | | | |
| Leakage Current(µA) (20°C) | 6.3~100V | | | | | | 160~500V | | | | | | |
| | 1≤0.01CV or 3 µ A, Whichever is greater(after 2 minutes) | | | | | | 1 ≤0.02CV+15 µ A, (after 5 minutes) | | | | | | |
| | C:Nominal Capacitance(µF) V:Rated Voltage(V) | | | | | | | | | | | | |
| Dissipation Factor (20°C,120HZ) | R.v.(v) | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 ~ 250 | 350 ~ 450 | 500 | |
| | Tanδ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.15 | 0.2 | 0.24 | |
| When nominal capacitance exceeds 1,000 µ F, add 0.02 to the value above for each 1,000 µ F increase | | | | | | | | | | | | | |
| Stability at low Temperature (Impedance Ratio at 120Hz) | R.V.(V) | | 6.3 | 10 | 16 | 25 ~ 100 | 160 ~ 250 | 350 ~ 500 | | | | | |
| | Z-25°C/Z+20°C | | 4 | 3 | 2 | 2 | 3 | 6 | | | | | |
| | Z-40°C/Z+20°C | | 8 | 6 | 4 | 3 | - | - | | | | | |
| Load Life (+ 105°C 5000-8000h) | The following specification shall be satisfied when the capacitors are restored to 20°C after subjected to DC Voltage with the rated ripple current is applied for 5000-8000h at 105°C. | | | | | | | | | | | | |
| | Capacitance Change | | Within ±30% of the initial measured Value. (160-500WV:±20%) | | | | | | Life time | | | | |
| | Dissipation Factor | | ≤200% of the initial specified Value | | | | | | Φ5mm | ≥Φ6.3mm | | | |
| | Leakage current | | ≤The initial specified value | | | | | | 5000h | 8000h | | | |
| Shelf Life (+ 105°C 1000h) | The following specification shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000h at 105°C without Voltage applied. | | | | | | | | | | | | |
| | Capacitance Change | | Within ±30% of the initial measured Value (160-500WV:±20%). | | | | | | | | | | |
| | Dissipation Factor | | ≤200% of the initial specified Value | | | | | | | | | | |
| | Leakage current | | ≤200% of the initial specified Value | | | | | | | | | | |

Frequency Coefficient

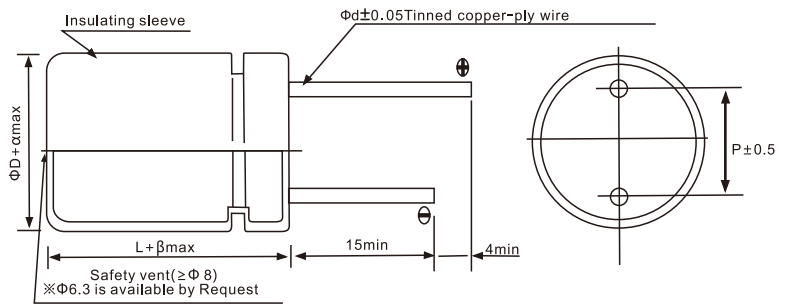
| Cap.(µF) \ Freq.(HZ) | 120 | 1K | 10K | 100K |
|----------------------|------|------|------|------|
| CAP < 220 | 0.40 | 0.75 | 0.90 | 1.00 |
| 220 ≤ CAP < 680 | 0.50 | 0.85 | 0.94 | 1.00 |
| 680 ≤ CAP < 2200 | 0.60 | 0.87 | 0.95 | 1.00 |
| 2200 ≤ CAP < 4700 | 0.75 | 0.90 | 0.95 | 1.00 |
| CAP ≥ 4700 | 0.85 | 0.95 | 0.98 | 1.00 |

Temperature Coefficieng

| Temperature (°C) | 40 | 60 | 70 | 85 | 105 |
|------------------|-----|-----|------|------|-----|
| Factor | 2.4 | 2.1 | 1.78 | 1.65 | 1 |

CD26G Series

| Dimensions (mm) | | | | | | | | | | |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| ΦD | 5 | 6.3 | 8 | 10 | 13 | 16 | 18 | 20 | 22 | |
| P | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 10 | 10 | |
| Φd | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | |
| β | 1.0 | | | 2.0 | | | | | | |
| α | | | | | 0.5 | | | | | |



| Ratings | | | | | | | | | | | | | | | | |
|-----------------------|--------------|------------------------------|--------------|------------------------------|--------------|------------------------------|--------------|------------------------------|--------------|------------------------------|--------------|------------------------------|--------------|------------------------------|--------------|------------------------------|
| R.V.(V) | 6.3 | | 10 | | 16 | | 25 | | 35 | | 50 | | 63 | | 80 | |
| Freq.(HZ) Cap.(μF) | ΦDxL (mm) | Ripple Current (mAmps) | ΦDxL (mm) | Ripple Current (mAmps) | ΦDxL (mm) | Ripple Current (mAmps) | ΦDxL (mm) | Ripple Current (mAmps) | ΦDxL (mm) | Ripple Current (mAmps) | ΦDxL (mm) | Ripple Current (mAmps) | ΦDxL (mm) | Ripple Current (mAmps) | ΦDxL (mm) | Ripple Current (mAmps) |
| 1 | | | | | | | | | | | 5×11 | 10 | | | | |
| 2.2 | | | | | | | | | | | 5×11 | 19 | | | | |
| 3.3 | | | | | | | | | | | 5×11 | 23 | | | | |
| 4.7 | | | | | | | | | | | 5×11 | 28 | | | | |
| 6.8 | | | | | | | | | | | 5×11 | 34 | | | | |
| 10 | | | | | | | | | | | 5×11 | 38 | | | | |
| 15 | | | | | | | | | | | 5×11 | 50 | 5×11 | 134 | | |
| 22 | | | | | | | | | | | 5×11 | 186 | | | | |
| 33 | | | | | | | | | 5×11 | 196 | | | 6.3×11 | 214 | | |
| 47 | | | | | | | 5×11 | 192 | | | | | | | | |
| 56 | | | | | | | | | 6.3×11 | 291 | 6.3×11 | 278 | 8×12 | 400 | | |
| 68 | | | | | | | | | | | | | | | 10×13 | 386 |
| 82 | | | | | | | | | | | | | 8×16 | 532 | | |
| 100 | | | 5×11 | 195 | | | 6.3×11 | 291 | 8×12 | 408 | 8×12 | 498 | | | 10×16 | 484 |
| 120 | | | | | 6.3×11 | 291 | | | | | 8×16 | 640 | 8×20 | 656 | 10×20 | 640 |
| 150 | 5×11 | 195 | | | 6.3×11 | 407 | | | 8×12 | 522 | 10×13 | 660 | 8×16 | 784 | 10×25 | 724 |
| 180 | | | | | | | | | | | 8×20 | 794 | 10×20 | 920 | | |
| 220 | 6.3×11 | 244 | 6.3×11 | 294 | 6.3×12 | 464 | 8×12 | 522 | 8×16 | 673 | 10×16 | 914 | 10×25 | 1085 | 13×21 | 884 |
| 270 | | | | | | | | | 8×20 | 832 | 10×20 | 1043 | 13×21 | 1200 | | |
| 330 | 6.3×11 | 293 | | | 8×12 | 522 | 8×16 | 671 | 10×16 | 950 | 10×25 | 1233 | 10×20 | 1400 | 13×25 | 1005 |
| 390 | | | | | | | 8×20 | 791 | | | | | 13×25 | 1520 | 13×30 | 1200 |
| 470 | 8×11 | 408 | 8×11 | 522 | 8×16 | 672 | 10×16 | 950 | 10×20 | 1201 | 13×21 | 1347 | 13×30 | 1845 | 13×35 | 1324 |
| 560 | | | | | | | 10×16 | 1075 | 10×25 | 1412 | 13×25 | 1578 | 13×35 | 2005 | 13×40 | 1444 |
| 680 | | | 8×16 | 673 | 8×20 | 836 | 10×20 | 1201 | 13×21 | 1546 | 13×30 | 1866 | 13×40 | 2244 | 16×30 | 1484 |
| 820 | 8×16 | 672 | 8×12 | 781 | 10×16 | 964 | 10×25 | 1412 | 10×20 | 1677 | 13×35 | 1930 | 18×25 | 2244 | 16×35 | 1605 |
| 1000 | 8×16 | 644 | 8×20 | 836 | 10×20 | 1201 | 13×21 | 1636 | 13×25 | 1809 | 16×25 | 1962 | 16×35 | 2324 | 16×40 | 1764 |
| 1200 | 8×20 | 835 | 10×20 | 1201 | 10×25 | 1412 | | | 13×30 | 2141 | | | 16×40 | 2724 | 18×40 | 2164 |
| 1500 | 10×20 | 1201 | 10×20 | 1425 | 13×20 | 1548 | 13×25 | 1809 | 13×35 | 2212 | | | 18×35 | 2724 | | |
| 1800 | | | | | | | 13×30 | 2141 | | | | | 18×40 | 2804 | | |
| 2200 | 10×20 | 1411 | 13×20 | 1546 | 13×25 | 1809 | 13×35 | 2212 | | | | | | | | |
| 2700 | 10×25 | 1440 | | | 13×30 | 2138 | 16×25 | 2246 | | | | | | | | |
| 3300 | 13×20 | 1546 | 13×25 | 1809 | 13×35 | 2212 | | | | | | | | | | |
| 3900 | 13×25 | 1805 | 13×30 | 2138 | 16×25 | 2246 | | | | | | | | | | |
| 4700 | 13×30 | 2141 | 13×35 | 2212 | | | | | | | | | | | | |
| 5600 | 13×35 | 2176 | 16×25 | 2246 | | | | | | | | | | | | |
| 6800 | 16×25 | 2250 | | | | | | | | | | | | | | |

↑ Ripple Current (mAmps) at 105°C, 100KHZ



CD26G Series

| Ratings | | | | | | | | | | | | | | | | |
|-----------------------|--------------|-----------------------------|--------------|-----------------------------|--------------|-----------------------------|--------------|-----------------------------|--------------|-----------------------------|--------------|-----------------------------|--------------|-----------------------------|--------------|-----------------------------|
| R.V.(V) | 100 | | 160 | | 200 | | 250 | | 350 | | 400 | | 450 | | 500 | |
| Freq.(HZ) Cap.(µF) | ΦDxL (mm) | Ripple Current (mAms) | ΦDxL (mm) | Ripple Current (mAms) | ΦDxL (mm) | Ripple Current (mAms) | ΦDxL (mm) | Ripple Current (mAms) | ΦDxL (mm) | Ripple Current (mAms) | ΦDxL (mm) | Ripple Current (mAms) | ΦDxL (mm) | Ripple Current (mAms) | ΦDxL (mm) | Ripple Current (mAms) |
| 1 | | | 6.3×9 | 26 | 6.3×12 | 31 | 6.3×12 | 33 | 6.3×12 | 46 | 6.3×12 | 52 | 8×12 | 49 | | |
| 1.5 | | | 6.3×12 | 32 | 6.3×12 | 35 | 6.3×12 | 37 | 6.3×12 | 51 | 6.3×12 | 55 | 8×12 | 52 | | |
| 1.8 | | | 6.3×12 | 36 | 6.3×12 | 38 | 6.3×12 | 40 | 6.3×12 | 54 | 6.3×12 | 59 | 8×12 | 58 | | |
| 2.2 | | | 6.3×12 | 42 | 6.3×12 | 46 | 6.3×12 | 51 | 6.3×12 | 61 | 6.3×12 | 60 | 8×12 | 68 | | |
| 2.8 | | | 6.3×12 | 44 | 6.3×12 | 50 | 6.3×12 | 54 | 8×12 | 68 | 8×12 | 74 | 8×12 | 74 | | |
| 3.3 | | | 6.3×12 | 49 | 6.3×12 | 55 | 6.3×12 | 57 | 8×12 | 75 | 8×12 | 75 | 8×16 | 86 | | |
| 4.7 | | | 6.3×12 | 52 | 6.3×12 | 61 | 6.3×12 | 62 | 8×12 | 77 | 8×12 | 76 | 8×20 | 93 | | |
| 5.6 | | | 6.3×12 | 55 | | | 8×9 | 65 | 8×12 | 83 | 8×16 | 93 | 10×16 | 101 | | |
| 6.8 | 5×11 | 83 | 8×12 | 65 | 8×12 | 74 | 8×12 | 72 | 8×16 | 106 | 10×12 | 106 | 10×16 | 119 | 13X21 | 174 |
| 8.2 | | | 8×12 | 74 | 8×12 | 77 | 8×12 | 77 | 8×20 | 123 | 10×20 | 151 | 10×20 | 151 | | |
| 10 | | | 8×12 | 136 | 8×12 | 122 | 8×12 | 112 | 8×20 | 152 | 10×20 | 183 | 10×20 | 164 | 13X25 | 228 |
| 12 | | | | | | | | | | | 10×20 | 189 | | | 13X35 | 290 |
| 15 | 6.3×11 | 134 | 8×12 | 151 | 8×16 | 164 | 8×20 | 202 | 10×20 | 202 | 10×20 | 196 | 13×20 | 228 | | |
| 22 | | | 8×16 | 221 | 10×16 | 259 | 10×16 | 260 | 13×20 | 279 | 13×20 | 253 | 13×25 | 292 | 18X25 | 363 |
| 27 | 8×12 | 227 | | | | | | | | | | | | | | |
| 33 | | | 10×16 | 273 | 10×20 | 292 | 10×20 | 310 | 13×20 | 335 | 16×25 | 356 | 16×25 | 357 | 18X30 | 456 |
| 39 | 8×16 | 288 | | | | | | | | | | | | | 18X30 | 493 |
| 47 | 10×13 | 311 | 10×16 | 298 | 13×20 | 394 | 13×20 | 403 | 16×20 | 421 | 16×25 | 413 | 16×35 | 452 | 18X35 | 576 |
| 56 | 8×20 | 365 | | | | | | | | | 16×30 | 438 | | | 22X35 | 736 |
| 68 | 10×16 | 387 | 13×21 | 407 | 13×20 | 410 | 16×20 | 465 | 18×20 | 470 | 18×30 | 516 | 18×30 | 522 | 22X35 | 896 |
| 82 | 10×20 | 515 | 10×25 | | | | | | 18×25 | 586 | | | | | | |
| 100 | 13×16 | 483 | 13×25 | 464 | 16×20 | 474 | 16×25 | 516 | 16X30 | 614 | 18×35 | 599 | 18×40 | 612 | | |
| 120 | 10×25 | 579 | 13×21 | | | | | | | | | | | | | |
| 150 | 13×20 | 707 | 16×25 | 548 | 16×30 | 579 | 16×30 | 600 | | | 18X40 | 819 | 18X45 | 704 | | |
| 180 | | | | | | | | | | | | | | | | |
| 220 | 13×25 | 803 | 16X25 | 627 | | | | | | | | | | | | |
| 270 | 13×30 | 960 | | | | | | | | | | | | | | |
| 330 | 13×25 | 1059 | 18X30 | | | | | | | | | | | | | |
| 390 | 13×40 | 1152 | | | | | | | | | | | | | | |
| 470 | 16×30 | 1188 | | | | | | | | | | | | | | |
| 560 | 16×35 | 1280 | | | | | | | | | | | | | | |
| 680 | 16×40 | 1411 | | | | | | | | | | | | | | |
| 820 | 18×40 | 1728 | | | | | | | | | | | | | | |

↑
Ripple Current (mAms)at105°C,100KHZ