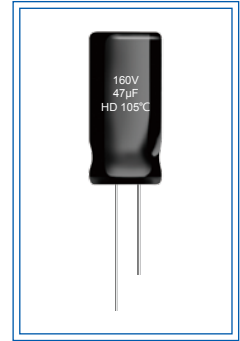


# HD 小体积, 高稳定, 长寿命品 (CD26GD)

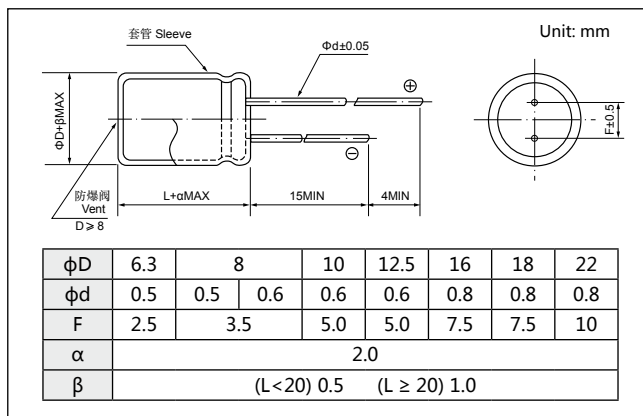
- 小体积, 高稳定, 长寿命。Miniaturized, high stability, long life.
- 专为 LED 灯、LED 驱动设计。Extremely designed for LED lamps, LED driver.
- 保证寿命: 105°C 6000 小时。Ensure life: 105°C 6000 hrs.
- 符合 RoHS。RoHS Compliant.



## 主要技术性能 Specifications

| 项目 Item   | 特性 Performance Characteristics  |                           |      |      |  |      |      |      |
|---|---|---------------------------|------|------|--|------|------|------|
| 工作温度范围<br>Operating Temperature Range                             | -40~+105°C (160~400V) -25~+105°C (450~500V)   |                           |      |      |  |      |      |      |
| 额定电压范围<br>Rated Voltage Range                                     | 160~500V  |                           |      |      |  |      |      |      |
| 标称电容容量范围<br>Nominal Capacitance Range                             | 1~150µF   |                           |      |      |  |      |      |      |
| 标称电容容量允许偏差<br>Capacitance Tolerance                               | ±20%(+20°C, 120Hz)  |                           |      |      |  |      |      |      |
| 漏电流<br>Leakage Current  | 160~400V  | 450~500V                  |      |      | I: 漏电流 Leakage current (µA) C: 静电容量 Nominal capacitance (µF)<br>V: 额定电压 Rated Voltage (V) (20°C, 2 分钟 minutes) |      |      |      |
|   | $I \leq 0.02CV + 10\mu A$   | $I \leq 0.03CV + 10\mu A$ |      |      |  |      |      |      |
| 损耗角正切值 (tgδ)<br>Dissipation Factor<br>(+20°C, 120Hz)              | $U_R(V)$  | 160                       | 200  | 250  | 350  | 400  | 450  | 500  |
|   | tgδ   | 0.15                      | 0.15 | 0.15 | 0.20   | 0.20 | 0.20 | 0.24 |
| 温度特性<br>Temperature Characteristics<br>(Impedance ratio at 120Hz) | $U_R(V)$  | 160                       | 200  | 250  | 350  | 400  | 450  | 500  |
|   | Z-25°C / +20°C  | 3                         | 3    | 3    | 5  | 5    | 6    | 6    |
|   | Z-40°C / +20°C  | 6                         | 6    | 6    | 6  | 6    | -    | -    |
| 耐久性<br>Load Life  | 在 105°C 环境中, 连续加载直流电压与额定纹波电流 (所加电压峰值不超过额定工作电压) 6,000 小时后, 待温度恢复到 20°C 进行测量时, 应满足以下要求:<br>After application of DC voltage with rated ripple current (the voltage peak is not more than rated voltage) at 105°C 6,000 hours, measuring the parameters when the capacitors are restored to 20°C, the capacitors shall meet the requirements as below:<br>电容量变化率 Capacitance change: ±20% 初始测量值以内 ±20% of the initial measured value<br>损耗角正切值 Dissipation factor: ≤ 2 倍初始规定值 200% of the initial specified value<br>漏 电 流 Leakage current: ≤ 初始规定值 the initial specified value |                           |      |      |  |      |      |      |
| 高温贮存<br>Shelf Life  | 在 105°C 环境中, 无负荷放置 1000 小时后, 待温度恢复到 20°C 进行测量时, 应满足以下要求:<br>The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage application.<br>电容量变化率 Capacitance change: ±20% 初始测量值以内 ±20% of the initial measured value<br>损耗角正切值 Dissipation factor: ≤ 2 倍初始规定值 200% of the initial specified value<br>漏 电 流 Leakage current: ≤ 2 倍初始规定值 200% of the initial specified value  |                           |      |      |  |      |      |      |

## 外形图及尺寸 Diagram of Dimensions



## 纹波电流修正系数 Multiplier for Ripple Current

频率系数 Frequency coefficient

| Frequency(Hz) | 120     | 1K   | 10K  | 100K |
|---------------|---------|------|------|------|
| Coefficient   | 160-500 | 0.50 | 0.80 | 0.90 |

额定值标准 **Standard Size**

| Rated Voltage (V <sub>dc</sub> ) | Capacitance (μF) | Size ΦD×L (mm) | tanδ | Rated ripple current (mArms) 105°C /100KHz | Rated Voltage (V <sub>dc</sub> ) | Capacitance (μF) | Size ΦD×L (mm) | tanδ   | Rated ripple current (mArms) 105°C /100KHz |
|----------------------------------|------------------|----------------|------|--|----------------------------------|------------------|----------------|--------|--|
| 160V (2C)                        | 1                | 6.3x12         | 0.15 | 40   | 350V (2V)                        | 8.2              | 8x20           | 0.20   | 144  |
|                                  | 1.5              | 6.3x12         | 0.15 | 50   |                                  | 10               | 8x20           | 0.20   | 226  |
|                                  | 1.8              | 6.3x12         | 0.15 | 56   |                                  | 15               | 10x20          | 0.20   | 285  |
|                                  | 2.2              | 6.3x12         | 0.15 | 60   |                                  | 22               | 12.5x20        | 0.20   | 410  |
|                                  | 2.8              | 6.3x12         | 0.15 | 65   |                                  | 33               | 12.5x25        | 0.20   | 480  |
|                                  | 3.3              | 6.3x12         | 0.15 | 68   |                                  | 47               | 16x20          | 0.20   | 600  |
|                                  | 4.7              | 6.3x12         | 0.15 | 72   |                                  | 68               | 18x20          | 0.20   | 720  |
|                                  | 5.6              | 8x12           | 0.15 | 76   |                                  | 100              | 18x30          | 0.20   | 900  |
|                                  | 6.8              | 8x12           | 0.15 | 96   |                                  | 400V (2G)        | 1              | 6.3x12 | 0.20                                       |
|                                  | 10               | 8x12           | 0.15 | 206  | 1.2                              |                  | 6.3x12         | 0.20   | 63   |
|                                  | 15               | 8x16           | 0.15 | 216  | 1.5                              |                  | 8x12           | 0.20   | 72   |
|                                  |                  |                | 0.15 | 225  | 1.8                              |                  | 8x12           | 0.20   | 75   |
|                                  | 22               | 8x20           | 0.15 | 360  | 2.2                              |                  | 6.3x12         | 0.20   | 72   |
|                                  |                  | 10x16          | 0.15 | 360  |                                  |                  | 8x12           | 0.20   | 78   |
|                                  | 33               | 10x20          | 0.15 | 450  | 2.8                              |                  | 8x16           | 0.20   | 85   |
|                                  | 47               | 10x20          | 0.15 | 500  | 3.3                              |                  | 8x12           | 0.20   | 91   |
|                                  | 68               | 12.5x20        | 0.15 | 600  |                                  |                  | 8x16           | 0.20   | 95   |
| 100                              | 12.5x25          | 0.15           | 722  | 4.7  | 8x12                             |                  | 0.20           | 104    |  |
|                                  | 16x20            | 0.15           | 722  |  | 8x16                             |                  | 0.20           | 110    |  |
| 150                              | 16x25            | 0.15           | 798  | 5.6  | 8x20                             |                  | 0.20           | 138    |  |
|                                  |                  | 0.15           | 798  |  | 10x16                            |                  | 0.20           | 138    |  |
| 1                                | 6.3x12           | 0.15           | 42   | 6.8  | 8x20                             |                  | 0.20           | 148    |  |
| 1.5                              | 6.3x12           | 0.15           | 54   | 10x16                                      | 0.20                             |                  | 148            |        |  |
| 1.8                              | 6.3x12           | 0.15           | 60   |  | 8.2                              |                  | 10x16          | 0.20   | 218  |
| 2.2                              | 6.3x12           | 0.15           | 68   | 10   | 10x20                            |                  | 0.20           | 230    |  |
| 2.8                              | 6.3x12           | 0.15           | 71   |  | 10x16                            |                  | 0.20           | 226    |  |
| 3.3                              | 6.3x12           | 0.15           | 78   | 15   | 10x20                            | 0.20             | 238            |        |  |
| 4.7                              | 6.3x12           | 0.15           | 85   |  | 12.5x20                          | 0.20             | 300            |        |  |
| 5.6                              | 8x12             | 0.15           | 98   | 22   | 12.5x25                          | 0.20             | 420            |        |  |
| 6.8                              | 8x16             | 0.15           | 103  |  | 16x20                            | 0.20             | 420            |        |  |
| 10                               | 8x16             | 0.15           | 216  | 33   | 16x25                            | 0.20             | 550            |        |  |
|                                  |                  | 0.15           | 225  |  | 16x30                            | 0.20             | 579            |        |  |
| 22                               | 8x20             | 0.15           | 250  | 47   | 12.5x40                          | 0.20             | 630            |        |  |
|                                  | 10x16            | 0.15           | 380  |  | 16x30                            | 0.20             | 637            |        |  |
| 33                               | 10x20            | 0.15           | 450  | 68   | 18x30                            | 0.20             | 760            |        |  |
| 47                               | 12.5x20          | 0.15           | 580  | 100  | 18x40                            | 0.20             | 1100           |        |  |
| 68                               | 12.5x25          | 0.15           | 665  | 450V (2W)                                  | 1                                | 8x12             | 0.20           | 60     |  |
| 100                              | 16x25            | 0.15           | 760  |  | 1.5                              | 8x12             | 0.20           | 70     |  |
| 150                              | 16x30            | 0.15           | 895  |  | 1.8                              | 8x12             | 0.20           | 72     |  |
|                                  |                  | 0.15           | 895  |  | 2.2                              | 8x16             | 0.20           | 75     |  |
| 1                                | 6.3x12           | 0.15           | 46   |  | 2.8                              | 8x16             | 0.20           | 79     |  |
| 1.5                              | 6.3x12           | 0.15           | 58   |  | 3.3                              | 8x16             | 0.20           | 86     |  |
| 1.8                              | 6.3x12           | 0.15           | 62   |  | 4.7                              | 8x20             | 0.20           | 99     |  |
| 2.2                              | 6.3x12           | 0.15           | 70   |  | 5.6                              | 10x16            | 0.20           | 115    |  |
| 2.8                              | 6.3x12           | 0.15           | 78   |  | 6.8                              | 10x20            | 0.20           | 158    |  |
| 3.3                              | 6.3x12           | 0.15           | 80   |  | 8.2                              | 10x20            | 0.20           | 209    |  |
| 4.7                              | 8x12             | 0.15           | 102  |  | 10                               | 10x20            | 0.20           | 225    |  |
| 5.6                              | 8x12             | 0.15           | 105  |  | 15                               | 12.5x20          | 0.20           | 332    |  |
| 6.8                              | 8x16             | 0.15           | 115  |  | 22                               | 12.5x25          | 0.20           | 427    |  |
| 8.2                              | 8x16             | 0.15           | 120  |  | 33                               | 10x45            | 0.20           | 510    |  |
| 10                               | 8x16             | 0.15           | 216  |  |                                  |                  | 16x25          | 0.20   | 522  |
| 15                               | 8x20             | 0.15           | 250  |  | 47                               | 12.5x45          | 0.20           | 660    |  |
| 22                               | 10x16            | 0.15           | 380  |  |                                  | 16x35            | 0.20           | 700    |  |
| 33                               | 12.5x20          | 0.15           | 470  |  | 68                               | 18x30            | 0.20           | 769    |  |
| 47                               | 12.5x20          | 0.15           | 580  | 100  | 18x40                            | 0.20             | 950            |        |  |
|                                  | 12.5x25          | 0.15           | 600  | 500V (2H)                                  | 10                               | 12.5x20          | 0.24           | 259    |  |
| 68                               | 16x25            | 0.15           | 720  |  |                                  | 15               | 12.5x25        | 0.24   | 272  |
| 100                              | 16x30            | 0.15           | 836  |  | 16x20                            |                  | 0.24           | 356    |  |
| 150                              | 16x35            | 0.15           | 978  |  | 22                               | 12.5x35          | 0.24           | 453    |  |
|                                  |                  | 0.15           | 978  |  |                                  | 16x25            | 0.24           | 453    |  |
| 1                                | 6.3x12           | 0.20           | 50   |  | 33                               | 18x25            | 0.24           | 567    |  |
| 1.5                              | 6.3x12           | 0.20           | 60   |  | 47                               | 18x30            | 0.24           | 713    |  |
| 1.8                              | 6.3x12           | 0.20           | 64   |  | 68                               | 22x35            | 0.24           | 1000   |  |
| 2.2                              | 6.3x12           | 0.20           | 70   | 100  | 22x35                            | 0.24             | 1400           |        |  |
| 2.8                              | 8x12             | 0.20           | 80   |  |                                  |                  |                |        |  |
| 3.3                              | 8x12             | 0.20           | 82   |  |                                  |                  |                |        |  |
| 4.7                              | 8x12             | 0.20           | 102  |  |                                  |                  |                |        |  |
| 5.6                              | 8x16             | 0.20           | 110  |  |                                  |                  |                |        |  |
| 6.8                              | 8x20             | 0.20           | 128  |  |                                  |                  |                |        |  |

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