

GD 105°C / 耐高纹波 / 极低阻抗品 (CD285)

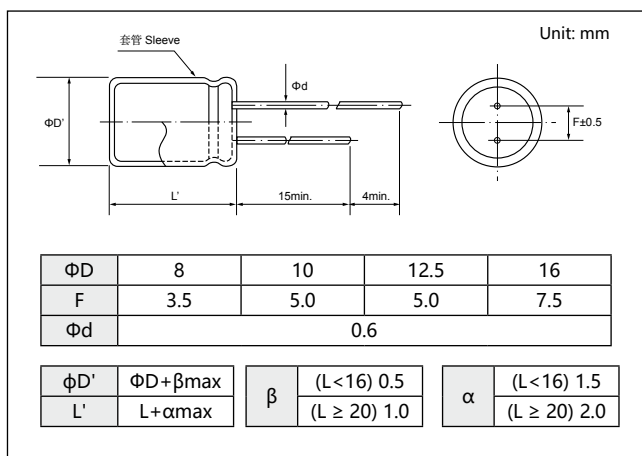
- 100KHz 下, 极低阻抗。105°C 2000-5000 小时。
Ultra low impedance at 100KHz, 105°C 2000-5000 hours.
- 等效串联电阻不能承受高纹波电流。
Enable high ripple current by a reduction of ESR at high frequency range.
- 用于电脑主机板。Suitable for P4 mother board.
- 符合 RoHS。RoHS Compliant.



主要技术性能 Specifications

| 项目 Item | 特性 Performance Characteristics | | | | | | | | | | | |
|--|---|-----------------|------|--|----|-----------------|------|------|-------|------|---------|------|
| 工作温度范围 Category Temperature Range | -55~+105°C | | | | | | | | | | | |
| 额定电压范围 Rated Voltage Range | 6.3~16V _{dc} | | | | | | | | | | | |
| 标称电容量允许偏差 Capacitance Tolerance | ±20% (+20°C, 120Hz) | | | | | | | | | | | |
| 漏电流 Leakage Current | I ≤ 0.03CV (µA) whichever is greater (at 25°C, after 2 minutes) | | | | | | | | | | | |
| 损耗角正切值 (tgδ) Dissipation Factor (+20°C, 120Hz) | Rated Voltage(V _{dc}) | 6.3 | 10 | 16 | | | | | | | | |
| | tgδ(Max.) | 0.22 | 0.19 | 0.16 | | | | | | | | |
| 容量大于 1000µF 者, 每增加 1000µF, 其损耗角正切值增加 0.02。 When nominal capacitance exceeds 1000µF, add 0.02 to the value above for each 1000µF increase. | | | | | | | | | | | | |
| 温度特性 (阻抗比 Max.) Temperature characteristics (Max. Impedance ratio) (120Hz) | Rated Voltage(V _{dc}) | 6.3 | 10 | 16 | | | | | | | | |
| | Z(-55°C)/Z(+20°C) | 3 | 3 | 3 | | | | | | | | |
| 耐久性 Load Life | +105°C施加带额定纹波电流的额定电压规定的时间, 恢复 24 小时后: After applying rated voltage with specified ripple current for specified time at +105°C and then resumed 24 hours: 电容量变化率 Capacitance change : ≤初始值的 ±30% ±30% of the initial value 损耗角正切值 Dissipation factor : ≤初始规格值的 200% 200% of the initial specified value 漏电流 Leakage current : ≤初始规格值 The initial specified value | | | <table border="1"> <thead> <tr> <th>ΦD</th> <th>Life Time (hrs)</th> </tr> </thead> <tbody> <tr> <td>Φ5-6</td> <td>2000</td> </tr> <tr> <td>Φ8-10</td> <td>3000</td> </tr> <tr> <td>≥ Φ12.5</td> <td>5000</td> </tr> </tbody> </table> | ΦD | Life Time (hrs) | Φ5-6 | 2000 | Φ8-10 | 3000 | ≥ Φ12.5 | 5000 |
| | ΦD | Life Time (hrs) | | | | | | | | | | |
| Φ5-6 | 2000 | | | | | | | | | | | |
| Φ8-10 | 3000 | | | | | | | | | | | |
| ≥ Φ12.5 | 5000 | | | | | | | | | | | |
| 高温贮存 Shelf Life | +105°C, 1000 小时贮存后, 恢复 24 小时后: After storage for 1000 hours at +105°C and then resumed 24 hours 电容量变化率 Capacitance change : ≤初始值的 ±30% ±30% of the initial value 损耗角正切值 Dissipation factor : ≤初始规格值的 200% 200% of the initial specified value 漏电流 Leakage current : ≤初始规格值的 200% 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 | |
|---------------|----------|------|------|------|------|
| Cap(µF) | 470~3300 | 0.50 | 0.80 | 0.90 | 1.00 |

温度系数 Temperature coefficient

| Temperature (°C) | +65 | +85 | +105 |
|------------------|------|------|------|
| Coefficient | 2.10 | 1.70 | 1.00 |

标准品一览表 Standard Ratings

| Rated Voltage (V _{dc}) Cap.(μF) | 6.3(0J) | | | 10(1A) | | | 16(1C) | | |
|---|---------------------------|-------------------------------|---|---------------------------|-------------------------------|---|---------------------------|-------------------------------|---|
| | Case size ΦD×L (mm) | Max Imp 20°C,100kHz (Ω) | Rated ripple 105°C,100kHz (mArms) | Case size ΦD×L (mm) | Max Imp 20°C,100kHz (Ω) | Rated ripple 105°C,100kHz (mArms) | Case size ΦD×L (mm) | Max Imp 20°C,100kHz (Ω) | Rated ripple 105°C,100kHz (mArms) |
| 330 | - | - | - | - | - | - | 8×11.5 | 21 | 1300 |
| 470 | - | - | - | 8×11.5 | 21 | 1300 | 8×11.5 | 21 | 1300 |
| | | | | | | | 10×12.5 | 18 | 1760 |
| 560 | 8×11.5 | 21 | 1300 | - | - | - | - | - | - |
| 680 | - | - | - | 8×11.5 | 21 | 1300 | 10×12.5 | 18 | 1760 |
| | | | | | | | 8×20 | 12 | 2220 |
| | | | | | | | 10×16 | 11 | 2280 |
| 820 | 8×11.5 | 21 | 1300 | 10×12.5 | 18 | 1760 | 10×16 | 11 | 2280 |
| 1000 | 8×15 | 20 | 1700 | 10×12.5 | 18 | 1760 | 10×16 | 11 | 2280 |
| | | | | | | | 10×16 | 11 | 2280 |
| | | | | | | | 8×20 | 12 | 2220 |
| | 10×12.5 | 18 | 1760 | 8×20 | 12 | 2220 | 10×20 | 10 | 2900 |
| 1200 | 8×15 | 20 | 1700 | 10×16 | 11 | 2280 | 10×20 | 10 | 2900 |
| 1500 | 10×12.5 | 18 | 1760 | 10×16 | 11 | 2280 | 10×20 | 10 | 2900 |
| | 8×20 | 12 | 2220 | | | | | | |
| | 10×16 | 11 | 2280 | | | | | | |
| 1800 | 10×16 | 11 | 2280 | 10×20 | 10 | 2900 | 10×25 | 9 | 3190 |
| | 8×20 | 12 | 2220 | | | | 12.5×20 | 9 | 3190 |
| 2200 | 10×16 | 11 | 2280 | 10×25 | 9 | 3190 | 12.5×20 | 9 | 3190 |
| | 10×20 | 10 | 2900 | 12.5×20 | 9 | 3190 | 12.5×25 | 8 | 3370 |
| 2700 | 10×20 | 10 | 2900 | 12.5×20 | 9 | 3190 | 12.5×25 | 8 | 3370 |
| 3300 | 10×25 | 9 | 3190 | 12.5×25 | 8 | 3370 | 16×25 | 7 | 3610 |
| | 12.5×20 | 9 | 3190 | | | | | | |
| 4700 | 12.5×20 | 9 | 3190 | 12.5×25 | 8 | 3370 | - | - | - |
| 5600 | 12.5×20 | 8 | 3370 | 16×25 | 7 | 3610 | - | - | - |
| 8200 | 16×25 | 7 | 3610 | - | - | - | - | - | - |

可根据客户要求定制产品 Customer products are available on request.