

## NM双极性品 (CD11N型)

- 5mm 高, 双极性  
Be 5mm in height, Bi-polar
- 适用于信号耦合等极性需反转变换电路  
Used in circuits what polarity is reversed, such as signal coupling, etc.
- ROHS 指令已对应完毕。  
Adapted to the ROHS directive.

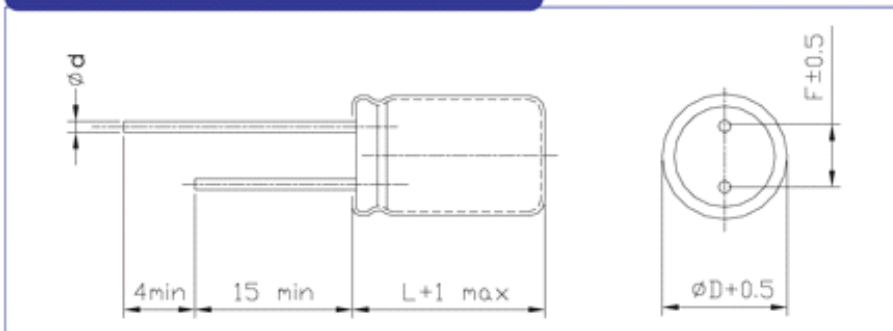


### 主要技术性能 Specifications

| 项目 Item  | 特性 Performance Characteristics  |           |      |      |      |      |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
|--|---|-----------|------|------|------|------|----|----|---------------|------|------|------|------|------|------|---------------|---|---|---|---|---|---|
| 使用温度范围 Operating temperature range                             | -40 ~ +85℃  |           |      |      |      |      |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
| 额定电压范围 Rated voltage range                                     | 6.3 ~ 50V   |           |      |      |      |      |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
| 标称电容量范围 Nominal capacitance range                              | 0.1~ 47µF   |           |      |      |      |      |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
| 标称电容量允许偏差 Capacitance tolerance                                | ± 20% (120Hz, +20℃)   |           |      |      |      |      |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
| 正反漏电流 Leakage current  | $I \leq 0.05CV$ or $10(\mu A)$ 2分钟(at 20℃, after 2 minutes) 取较大者(whichever is greater)  |           |      |      |      |      |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
| 损耗角正切值 (tg δ) Dissipation factor<br>(+20℃, 120Hz)              | <table border="1"> <thead> <tr> <th><math>U_R</math> (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>tg δ</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.18</td> <td>0.15</td> <td>0.15</td> </tr> </tbody> </table>  | $U_R$ (V) | 6.3  | 10   | 16   | 25   | 35 | 50 | tg δ          | 0.28 | 0.24 | 0.20 | 0.18 | 0.15 | 0.15 |               |   |   |   |   |   |   |
| $U_R$ (V)  | 6.3   | 10        | 16   | 25   | 35   | 50   |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
| tg δ   | 0.28  | 0.24      | 0.20 | 0.18 | 0.15 | 0.15 |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
| 温度特性 Temperature Characteristics<br>(Impedance ratio at 120Hz) | <table border="1"> <thead> <tr> <th><math>U_R</math> (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>Z-25℃ / Z+20℃</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40℃ / Z+20℃</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table> | $U_R$ (V) | 6.3  | 10   | 16   | 25   | 35 | 50 | Z-25℃ / Z+20℃ | 4    | 3    | 2    | 2    | 2    | 2    | Z-40℃ / Z+20℃ | 8 | 6 | 4 | 4 | 3 | 3 |
| $U_R$ (V)  | 6.3   | 10        | 16   | 25   | 35   | 50   |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
| Z-25℃ / Z+20℃  | 4   | 3         | 2    | 2    | 2    | 2    |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
| Z-40℃ / Z+20℃  | 8   | 6         | 4    | 4    | 3    | 3    |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
| 耐久性 Load life  | +85℃加额定电压 1000 小时 (每 250 小时反转极性一次) 恢复 16 小时后:<br>After applying rated voltage for 1000 hours at +85℃ (with the polarity inverted every 250 hours) and then resumed 16 hours:<br>电容量变化率 Capacitance change : ±25%初始测量值以内 Initial measured value<br>漏 电 流 Leakage current : ≤初始规定值 Initial specified value<br>损耗角正切值 Dissipation factor : ≤2 倍初始规定值 2times Initial specified value        |           |      |      |      |      |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |
| 高温贮存 Shelf life  | +85℃, 1000 小时贮存后, 恢复 16 小时后:<br>After storage for 1000 hours at +85℃ and then resumed 16 hours<br>电容量变化率 Capacitance change : ±25%初始测量值以内 Initial measured value<br>漏 电 流 Leakage current : ≤2 倍初始规定值 2times Initial specified value<br>损耗角正切值 Dissipation factor : ≤2 倍初始规定值 2times Initial specified value  |           |      |      |      |      |    |    |               |      |      |      |      |      |      |               |   |   |   |   |   |   |

### 外形图及尺寸表 Case size table

单位Unit: mm



| D | 4    | 5   | 6.3 |
|---|------|-----|-----|
| F | 1.5  | 2.0 | 2.5 |
| d | 0.45 |     |     |

### 尺寸 DIMENSIONS

| 容量<br>$C_R(\mu F)$ | 代码<br>Code | ØD × L(mm) |  |          |  |          |  |          |  |          |  |          |  |
|--------------------|------------|------------|--|----------|--|----------|--|----------|--|----------|--|----------|--|
|                    |            | 6.3V       |  | 10V      |  | 16V      |  | 25V      |  | 35V      |  | 50V      |  |
| 0.1                | 0R1        | 0J         |  | 1A       |  | 1C       |  | 1E       |  | 1V       |  | 1H       |  |
| 0.22               | R22        |            |  |          |  |          |  |          |  |          |  | 4×5 1.0  |  |
| 0.33               | R33        |            |  |          |  |          |  |          |  |          |  | 4×5 2.0  |  |
| 0.47               | R47        |            |  |          |  |          |  |          |  |          |  | 4×5 2.8  |  |
| 1                  | 010        |            |  |          |  |          |  |          |  |          |  | 4×5 4.0  |  |
| 2.2                | 2R2        |            |  |          |  |          |  |          |  |          |  | 4×5 8.4  |  |
| 3.3                | 3R3        |            |  |          |  |          |  |          |  |          |  | 4×5 13   |  |
| 4.7                | 4R7        |            |  |          |  |          |  | 5×5 12   |  |          |  | 5×5 17   |  |
| 10                 | 100        |            |  | 4×5 17   |  | 5×5 23   |  | 6.3×5 27 |  |          |  | 5×5 20   |  |
| 22                 | 220        | 5×5 28     |  | 6.3×5 33 |  | 6.3×5 37 |  |          |  | 6.3×5 46 |  | 6.3×5 33 |  |
| 33                 | 330        | 6.3×5 37   |  | 6.3×5 41 |  | 6.3×5 49 |  |          |  |          |  |          |  |
| 47                 | 470        | 6.3×5 45   |  |          |  |          |  |          |  |          |  |          |  |

额定纹波电流 Rated ripple current(mA, +85℃, 120Hz)