



# APPROVAL SHEET

TO: 直流支持电容5.0  $\mu$ F  $\pm$  10% 1100V.DC

| Main Materials |                                       | MARKING & OUTLINE DRAWING |  |
|----------------|---------------------------------------|---------------------------|--|
| Construction   | Materials                             |                           |  |
| Dielectric     | Metallized<br>Polypropylene<br>Film   |                           |  |
| Terminal       | Tinned Copper<br>wire                 |                           |  |
| Filling        | Flame-retardant<br>epoxy resin ,white |                           |  |
| Case           | Flame-retardant<br>plastic case, grey |                           |  |

| C.No.  | Type            | Dimensions (mm) |    |    |      |   |     | Note |
|--------|-----------------|-----------------|----|----|------|---|-----|------|
|        |                 | W               | H  | T  | P    | L | ΦD  |      |
| FC5063 | MKP-FC505K1100V | 32              | 37 | 22 | 27.5 | 6 | 0.8 |      |
|        |                 |                 |    |    |      |   |     |      |

| CUSTOMER CONFIRMATION |             |            | CR OFFER |             |             |
|-----------------------|-------------|------------|----------|-------------|-------------|
| STAMP                 | APPROVED BY | CHECKED BY | STAMP    | APPROVED BY | PREPARED BY |
|                       |             |            |          | 袁新海         | 李美欣         |
| DATE                  |             |            | DATE     | 2025-04-19  |             |

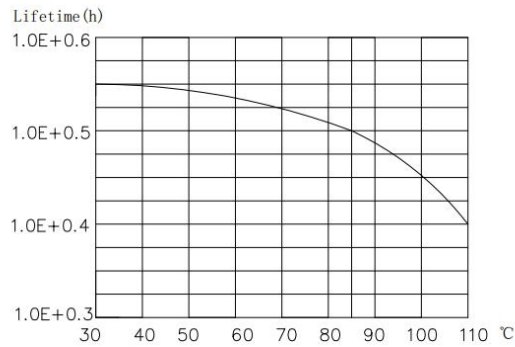
**SHENZHEN CRC NEW ENERGY CO., LTD**  
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 Hangcheng Zhigu, Bao'an District, Shenzhen, China  
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# Technical Data

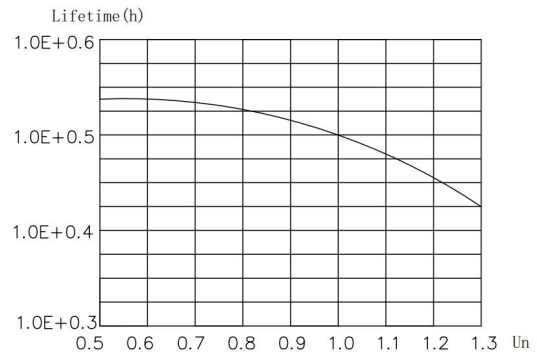
| Items                          | Symbols                                                               | Values       |
|--------------------------------|-----------------------------------------------------------------------|--------------|
| Rated capacitance              | C <sub>N</sub>                                                        | 5.0μF ± 10%  |
| Rated voltage                  | U <sub>N</sub>                                                        | 1100V.DC     |
| Non-recurrent surge voltage    | U <sub>s</sub>                                                        | 1700V.DC     |
| Maximum current                | I <sub>rms</sub>                                                      | 4.8A         |
| Maximum peak current           | î                                                                     | 50A          |
| Maximum surge current          | I <sub>s</sub>                                                        | 150A         |
| Series resistance              | R <sub>s</sub>                                                        | ≤40.4m Ω     |
| Tangent of the loss            | tan δ                                                                 | ≤0.0025      |
| Insulation Resistance          | C×R <sub>is</sub>                                                     | ≥5000s       |
| Self inductance                | L <sub>e</sub>                                                        | ≤30nH        |
| Lowest operating temperature   | Θ <sub>min</sub>                                                      | -40℃         |
| Maximum operating temperature  | Θ <sub>max</sub>                                                      | 105℃         |
| Operating humidity             | RH                                                                    | 0~95%        |
| Storage temperature            | Θ <sub>storage</sub>                                                  | -40℃~105℃    |
| Service life                   |                                                                       | 100000h      |
| Failure quota                  |                                                                       | <100Fit      |
|                                |                                                                       |              |
| Test Data                      |                                                                       |              |
| Voltage test between terminals | Vt-t                                                                  | 1650V.DC/10S |
| 过电压                            | 1.1 UN (30% of on-load-dur.)                                          |              |
|                                | 1.15 UN (30min/day)                                                   |              |
|                                | 1.2 UN (5min/day)                                                     |              |
|                                | 1.3 UN (1min/day)                                                     |              |
|                                | 1.5 UN (30ms every time, 1 000times during the life of the capacitor) |              |
|                                |                                                                       |              |
|                                |                                                                       |              |
| Operating altitude             |                                                                       | 2000m（max）   |
| Terminal tightening torque     |                                                                       | —            |

# Electrical Characteristics of Film Capacitor

## 1. Lifetime Expectancy

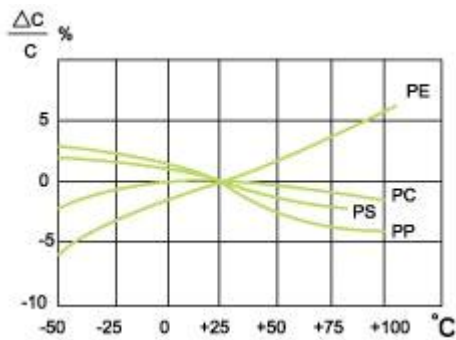


Lifetime expectancy vs. Charging temperature

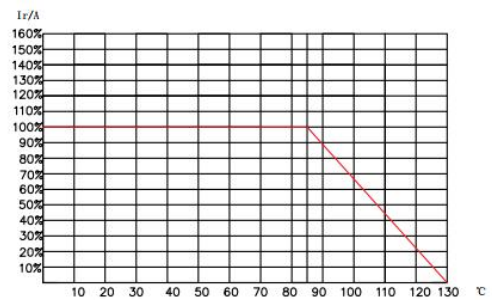


Lifetime expectancy vs. Charging voltage

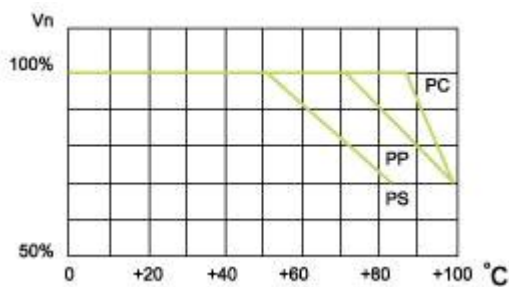
## 2. Temperature Characteristics



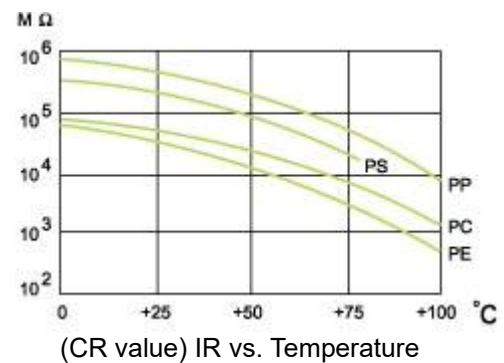
Capacitance change rate vs. Temperature



Operating current vs. Temperature

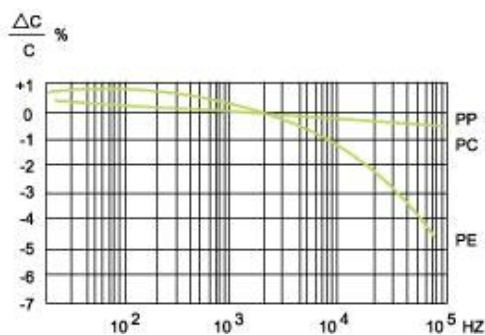


Operating voltage vs. Temperature

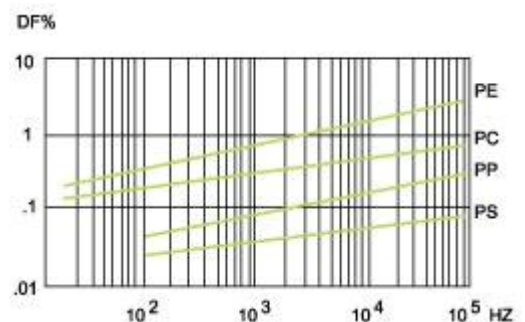


(CR value) IR vs. Temperature

## 3. Frequency Characteristics



Capacitance change rate vs. Frequency



Dissipation factor vs. Frequency