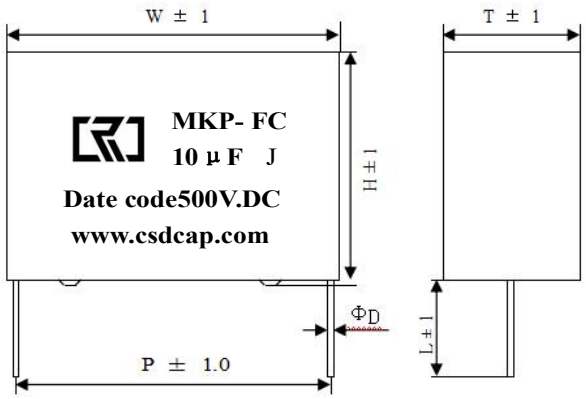
CRC NEW ENERGY

# APPROVAL SHEET

## TO: 直流支撑电容 10uF±5%500V

| Main Materials | | MARKING & OUTLINE DRAWING |
|---|---|---|
| **Construction** | **Materials** |  |
| Dielectric | Metallized Polypropylene Film | |
| Terminal | Tinned copper wire/plate | |
| Filling | Flame-retardant epoxy resin , white | |
| Case | Flame-retardant plastic case, grey | |



| Part No. | TYPE | Dimensions（mm） | | | | | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|
| | | W | H | T | P | | L | ΦD | |
| FC6030 | MKP-FC 10μFJ500VDC | 32 | 28 | 14 | 27.5 | | 15 | 0.8CP | |
| | | | | | | | | | |
| | | | | | | | | | |

| CUSTOMER CONFIRMATION | | | CR OFFER | | |
|---|---|---|---|---|---|
| **STAMP** | **APPROVED BY** | **CHECKED BY** | **STAMP** | **APPROVED BY** | **PREPARED BY** |
| | | | | 张东泽 | 李道燕 |
| **DATE** | | | **DATE** | **2019-05-11** | |

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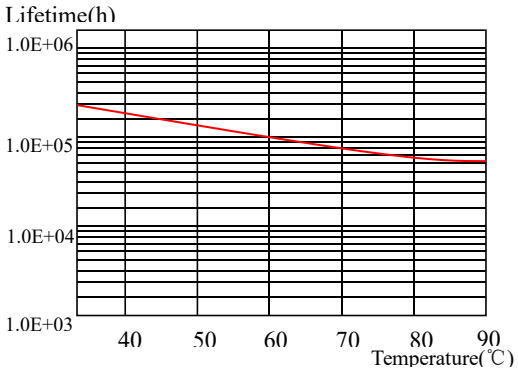
# Technical Data

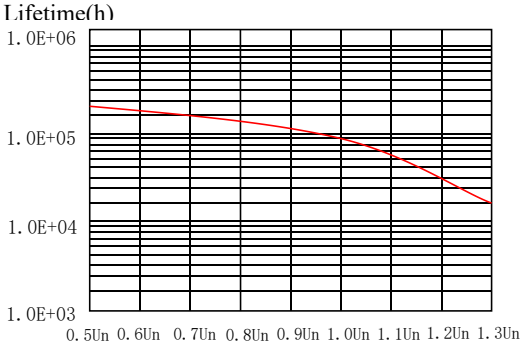
| Items | Symbols | Values |
|---|---|---|
| Rated capacitance | $C_N$ | 10μF±5% |
| Rated voltage | $U_N$ | 500V.DC |
| Non-recurrent surge voltage | $U_s$ | 750V.DC |
| Maximum current | Irms | 6.5A |
| Maximum peak current | Î | 650A |
| Maximum surge current | $I_S$ | 1950A |
| Series resistance | $R_S$ | ≤7.5mΩ |
| Tangent of the loss | tan δ | ≤0.0010 (100Hz) |
| Insulation Resistance | $C \times R_{is}$ | ≥5000S |
| Self inductance | $L_e$ | ≤27nH |
| Lowest operating temperature | Θmin | -40℃ |
| Maximum operating temperature | Θmax | 105℃ |
| operating humidity | RH | 0~95% |
| Storage temperature | Θstorage | 85℃ |
| Service life | | 100000h |
| At Θhotspot | | ≤70℃ |
| Failure quota | | 300Fit |
| | | |
| **Test data** | | |
| Voltage test between terminals | Vtt | 750V.DC/10S |
| A.C. voltage test between terminals and case | Vt-c | 3000V.AC/10S |
| | | |
| Operating altitude | | 2000m（max） |
| Terminal tightening torque | | _ |
| Bottom tightening torque | | _ |
| Weight | | kg |

# ELECTRICAL CHARACTERISTICS OF FILM CAPACITOR

## 1. Lifetime Expectancy

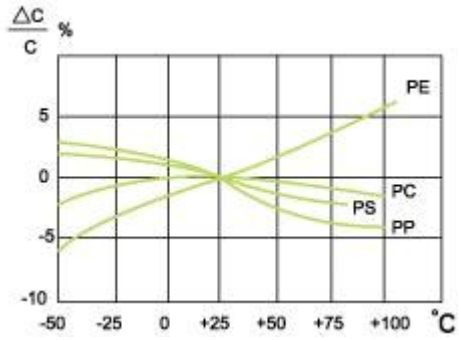



Lifetime expectancy vs. Charging temperature

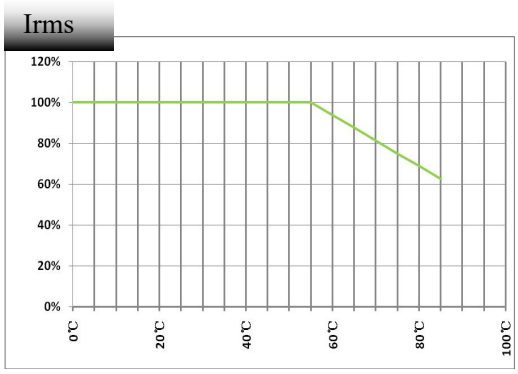



Lifetime expectancy vs. Charging voltage

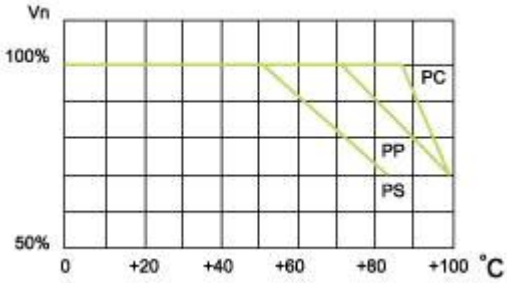
## 2. Temperature Characteristics



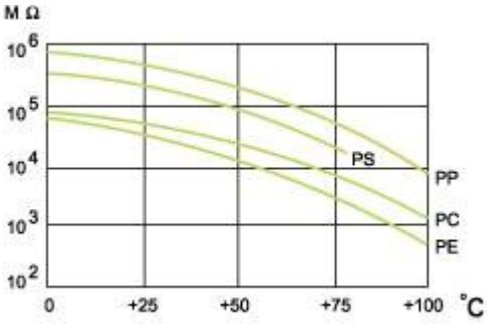

Capacitance change rate vs. Temperature




Operating current vs. Temperature

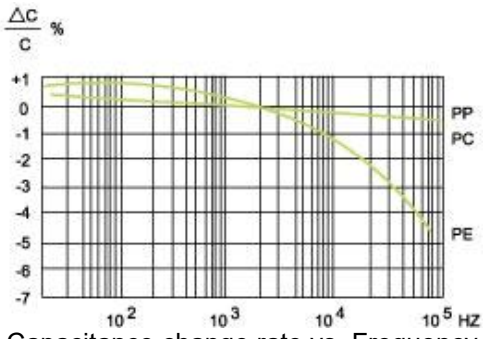



Operating voltage vs. Temperature

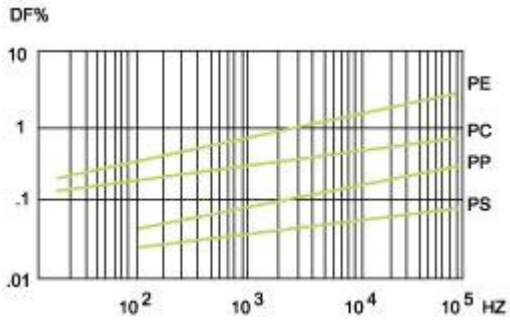



(CR value) IR vs. Temperature

## 3. Frequency Characteristics




Capacitance change rate vs. Frequency




Dissipation factor vs. Frequency