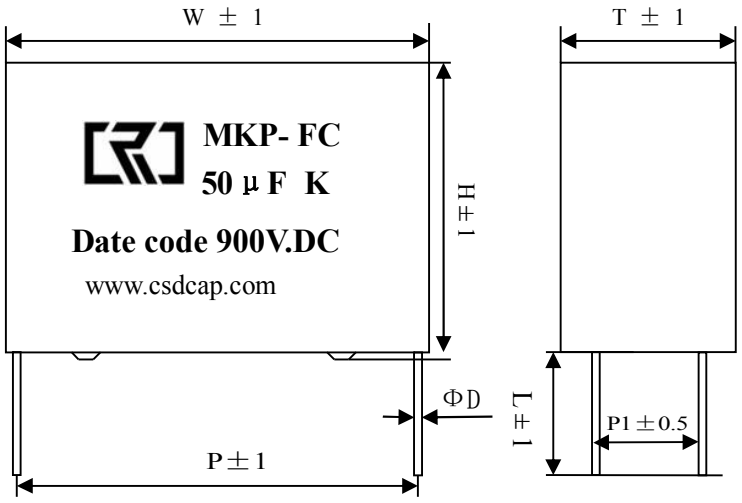
CRC NEW ENERGY

# APPROVE SHEET

TO: 直流支撑电容50uF±10% 900V

| Main Materials | | Mark & Outline |
|---|---|---|
| ITEMS | NAME | |
| Film | Metalized Polypropylene film | |
| Electrode | Tinned copper wire | |
| Epoxy | Flame-retardant Epoxy-White | |
| Case | Flame-retardant plastic case-grey | |




| Part No. | TYPE | Dimensions（mm） | | | | | | | NOTE |
|---|---|---|---|---|---|---|---|---|---|
| | | W | H | T | P | P1 | L | ΦD | |
| FC6136 | MKP-FC 50μF K 900V.DC | 57.5 | 50 | 35 | 52.5 | 20.3 | 4 | 1.2 | |
| | | | | | | | | | |

| CUSTOMER CONFIRM | | | CSD OFFER | | |
|---|---|---|---|---|---|
| APPOVED BY | CHECKED BY | STAMP | APPOVED BY | STAMP | MADE BY |
| | | | | | 闫佳佳 |
| DATE | | | DATE | 2019-11-19 | |

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# Technical data

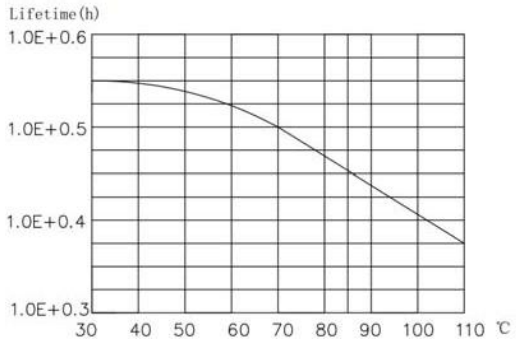
| | | |
|---|---|---|
| Rated capacitance | $C_N$ | 50μF±10% |
| Rated voltage | $U_N$ | 900V.DC |
| Non-recurrent surge voltage | $U_s$ | 1450V.DC |
| Maximum current | Irms | 25A |
| Series resistance | $R_S$ | ≤6.8mΩ |
| Tangent of the loss | tan δ | ≤0.0015（1KHz) |
| Insulation Resistance | $C \times R_{is}$ | ≥5000S |
| Self inductance | $L_e$ | ≤30nH |
| Lowest operating temperature | Θmin | -40℃ |
| Maximum operating temperature | Θmax | 105℃ |
| Operating humidity | RH | 0~95% |
| Storage temperature | Θstorage | 85℃ |
| Service life | | 100000h |
| At Θhotspot | | ≤85℃ |
| Failure quota | | ＜100Fit |
| | | |
| **Test data** | | |
| Voltage test between terminals | Vtt | 1350V.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) |

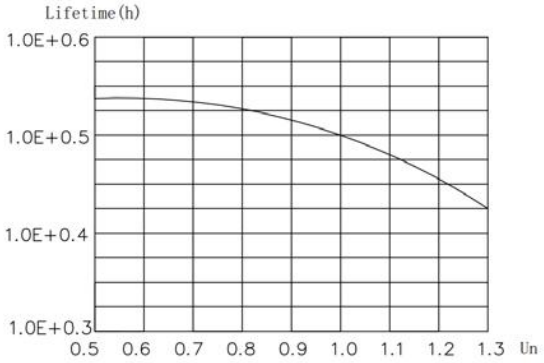
| | | |
|---|---|---|
| | | |
| Operating altitude | | 2000m（max） |
| Terminal tightening torque | | _ |
| Bottom tightening torque | | _ |
| Weight | | _ |

# Electrical Characteristics of Film Capacitor

1. Lifetime Expectancy

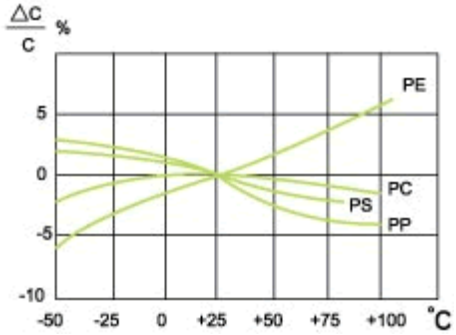



Life time Expectancy of charge temperature

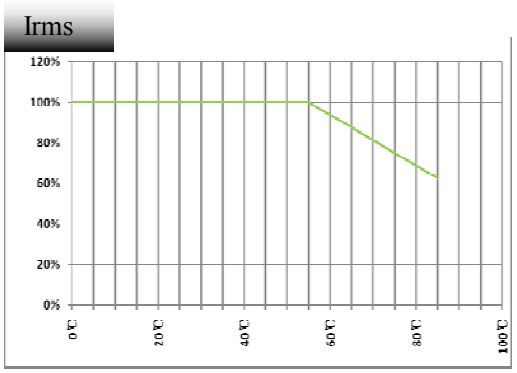



Life time Expectancy of charge voltage

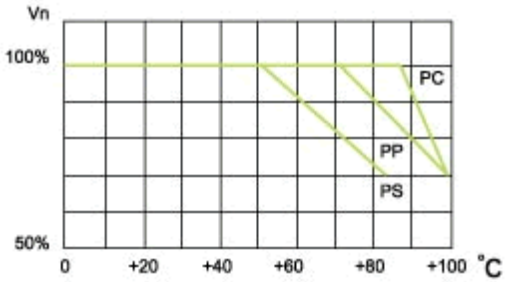
2. Temperature Characteristics



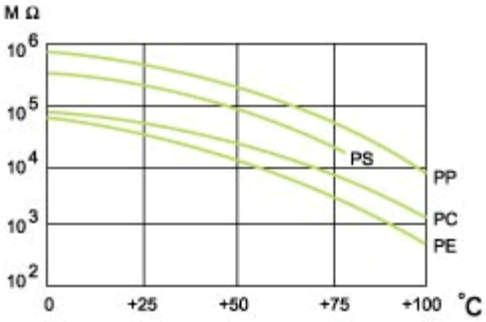

Capacitance vs. Temperature




Operation current vs. Temperature

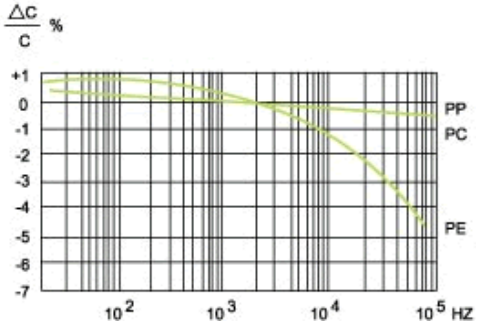



Operation voltage vs. Temperature

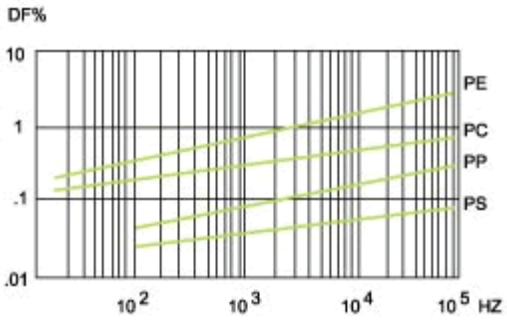



(CR value) IR vs. Temperature

3. Frequency Characteristics




Capacitance vs. Frequency




Dissipation Factor vs. Frequency