## ■GENERAL TECHNICAL CHARACTERISTICS 技术特性

| | |
|---|---|
| Reference standards 参考标准 | IEC 61071 |
| Dielectric 介质材料 | Segmented MKP film |
| Construction 封装结构 | Dry construction, filled by solid resin, non-inductive type |
| Case 外壳材料 | Aluminum case |
| Output 引出端 | Threaded insert M6, M8, or M10 |

## ■ELECTRICAL CHARACTERISTICS 电气特性

| | |
|---|---|
| Operating temperature 工作温度范围 | - 40 to + 85 ℃ |
| Capacitance range 容量范围 | 500 to10000 μF |
| Rated voltage range 额定电压 | 800 to 2800 Vdc |
| Capacitance tolerance 容量偏差 | ± 5%, ± 10% |
| Dissipation factor 损耗角正切 | ≤$2\times10^{-3}$ Measured at 100 Hz and 20±5℃ |
| Life expectancy 预期寿命 | 100,000 hours at $U_{NDC}$ and 70 ℃(Hot-spot temperature) |

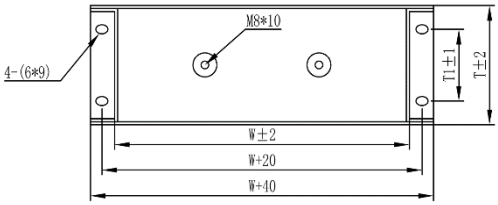
## ■TEST METHODS AND PERFORMANCES 测试方法

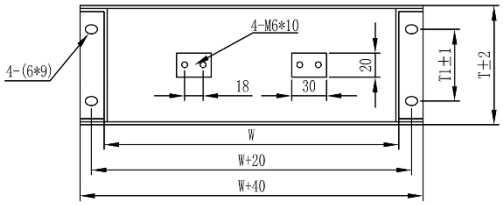
| | |
|---|---|
| Dielectric strength 介质强度 | 1.5×$U_{NDC}$ applied to 10s at 20±5 ℃ |
| Test voltage terminal to case 端壳耐压 | (1.5×$U_{NDC}$ +1000)VAC/50Hz for 10s |
| Insulation resistance(IR*$C_N$) 绝缘电阻 | ≥ 5000s but need not exceed 30GΩ, after 1 minute of electrification at 100VDC (20±5℃) |

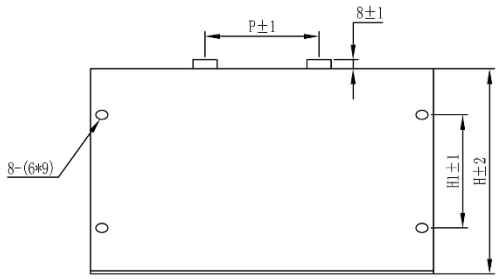
## ■OVER-VOLTAGE 过压保护

1.10×$U_{NDC}$ for maximum 8 Hour per day
1.15×$U_{NDC}$ for maximum 30 minimum per day
1.20×$U_{NDC}$ for maximum 5 minimum per day
1.30×$U_{NDC}$ for maximum 1 minimum per day
1.50×$U_{NDC}$ for 30 ms no more than 1000 times

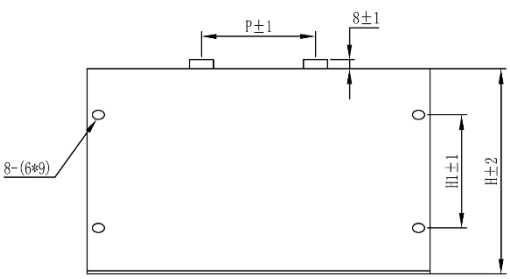
## ■OUTLINE DRAWING 外形图



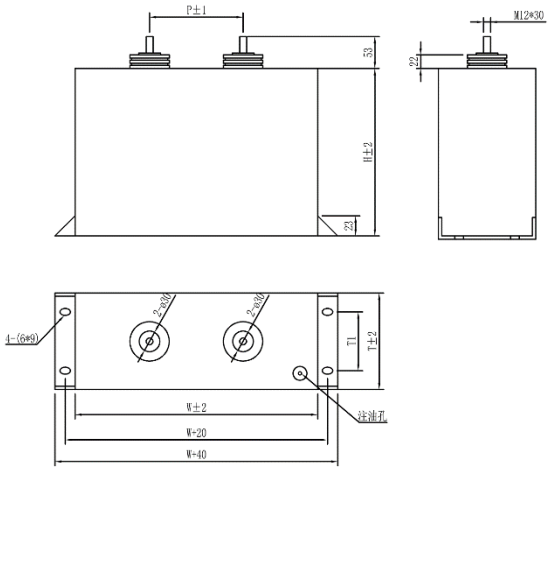

Style: A



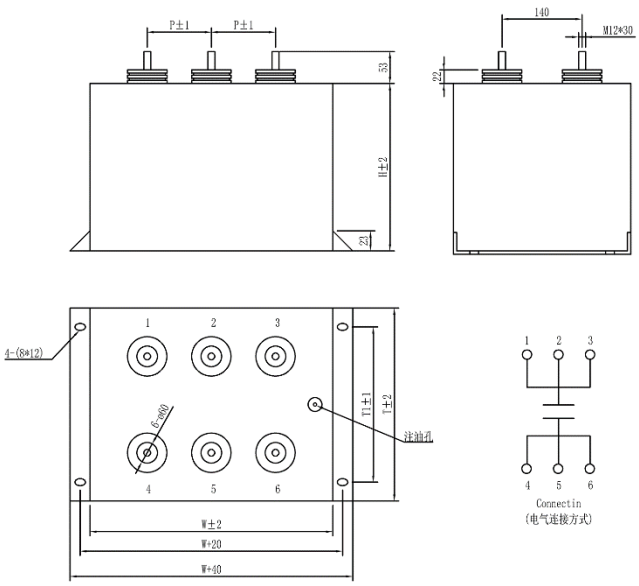

Style: B

| Terminals | Internals Thread | | | Externals Thread | | | |
|---|---|---|---|---|---|---|---|
| | M6 | M8 | M10 | M6 | M8 | M10 | M12 |
| Torque (N.M Max) | 5 | 8.5 | 12 | 2 | 4 | 9 | 14 |

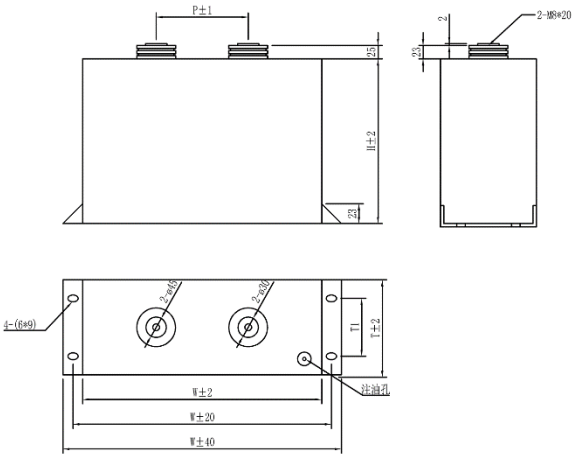
## ■OUTLINE DRAWING 外形图



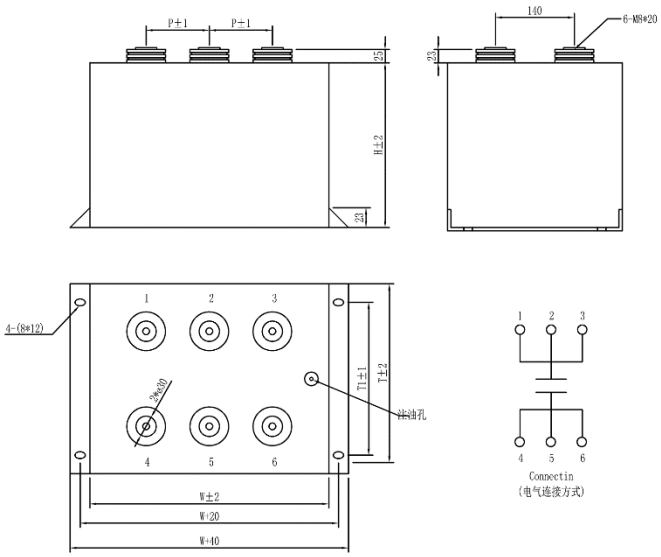

Style: C




Style: D




Style: E




Style: F

## ■HOW TO ORDER:

| K2M | 282D | 557 | K | S | F | A | *** |
|---|---|---|---|---|---|---|---|
| Series Code: | Voltage: | Capacitance: | Cap. Tol.: | Shape: | Output: | Style: | Internal |
| K2M: | 801D: 800Vdc | 107: 100μF | J: ± 5%, | S: Square | F: Thread | A, B, C, D, | Code |
| ADM Series | 202D:2000Vdc | 108: 1000μF | K: ± 10% | | M: Lead screw | E, F | |

## ■ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

| Part Number | Cap. (μF) | Dimension W | T | H | T1 | H1 | Imax @ 25℃ (A) | ESR@1.0 KHz (mΩ) | Ls (nH) | Rth (K/W) | Weight (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **$U_{NDC}$ 800Vdc, Us 1200Vdc** | | | | | | | | | | | |
| K2M801D308KS## *** | 3000 | 255.0 | 120.0 | 180.0 | 80.0 | 80.0 | 150 | 1.5 | <12 | 0.98 | 7.5 |
| K2M801D408KS##*** | 4000 | 280.0 | 120.0 | 205.0 | 80.0 | 100.0 | 180 | 1.3 | <12 | 0.75 | 9.5 |
| K2M801D508KS##*** | 5000 | 305.0 | 120.0 | 235.0 | 80.0 | 120.0 | 200 | 1.1 | <12 | 0.61 | 10.8 |
| K2M801D808KS##*** | 8000 | 280.0 | 230.0 | 205.0 | 170.0 | 100.0 | 300 | 0.9 | <12 | 0.51 | 18.6 |
| K2M801D109KS##*** | 10000 | 305.0 | 230.0 | 235.0 | 170.0 | 120.0 | 400 | 0.8 | <12 | 0.45 | 20.5 |
| **$U_{NDC}$ 1200Vdc, Us 1800Vdc** | | | | | | | | | | | |
| K2M122D208KS##*** | 2000 | 255.0 | 120.0 | 180.0 | 80.0 | 80.0 | 130 | 1.7 | <12 | 0.98 | 7.5 |
| K2M122D258KS##*** | 2500 | 280.0 | 120.0 | 205.0 | 80.0 | 100.0 | 150 | 1.5 | <12 | 0.75 | 9.5 |
| K2M122D328KS##*** | 3200 | 305.0 | 120.0 | 235.0 | 80.0 | 120.0 | 180 | 1.3 | <12 | 0.61 | 10.8 |
| K2M122D508KS##*** | 5000 | 280.0 | 230.0 | 205.0 | 170.0 | 100.0 | 300 | 1.1 | <12 | 0.51 | 18.6 |
| K2M122D658KS##*** | 6500 | 305.0 | 230.0 | 235.0 | 170.0 | 120.0 | 400 | 0.9 | <12 | 0.45 | 20.5 |
| **$U_{NDC}$ 1600VDC, Us 2400Vdc** | | | | | | | | | | | |
| K2M162D148KS##*** | 1400 | 255.0 | 120.0 | 180.0 | 80.0 | 80.0 | 110 | 1.9 | <12 | 0.98 | 7.5 |
| K2M162D178KS##*** | 1700 | 280.0 | 120.0 | 205.0 | 80.0 | 100.0 | 130 | 1.7 | <12 | 0.75 | 9.5 |
| K2M162D228KS##*** | 2200 | 305.0 | 120.0 | 235.0 | 80.0 | 120.0 | 160 | 1.5 | <12 | 0.61 | 10.8 |
| K2M162D348KS##*** | 3400 | 280.0 | 230.0 | 205.0 | 170.0 | 100.0 | 280 | 1.3 | <12 | 0.51 | 18.6 |
| K2M162D448KS##*** | 4400 | 305.0 | 230.0 | 235.0 | 170.0 | 120.0 | 380 | 1.1 | <12 | 0.45 | 20.5 |
| **$U_{NDC}$ 1800Vdc, Us 2700Vdc** | | | | | | | | | | | |
| K2M182D108KS##*** | 1000 | 255.0 | 120.0 | 180.0 | 80.0 | 80.0 | 90 | 2.1 | <12 | 0.98 | 7.5 |
| K2M182D138KS##*** | 1300 | 280.0 | 120.0 | 205.0 | 80.0 | 100.0 | 110 | 1.7 | <12 | 0.75 | 9.5 |
| K2M182D168KS##*** | 1600 | 305.0 | 120.0 | 235.0 | 80.0 | 120.0 | 140 | 1.5 | <12 | 0.61 | 10.8 |
| K2M182D268KS##*** | 2600 | 280.0 | 230.0 | 205.0 | 170.0 | 100.0 | 260 | 1.3 | <12 | 0.51 | 18.6 |
| K2M182D328KS##*** | 3200 | 305.0 | 230.0 | 235.0 | 170.0 | 120.0 | 360 | | <12 | 0.45 | 20.5 |
| **$U_{NDC}$ 2000Vdc, Us 3000Vdc** | | | | | | | | | | | |
| K2M202D807KS##*** | 800 | 280.0 | 120.0 | 205.0 | 80.0 | 100.0 | 120 | 2.1 | <12 | 0.75 | 9.5 |
| K2M202D108KS##*** | 1000 | 305.0 | 120.0 | 235.0 | 80.0 | 120.0 | 150 | 1.8 | <12 | 0.61 | 10.8 |
| K2M202D168KS##*** | 1600 | 280.0 | 230.0 | 205.0 | 170.0 | 100.0 | 180 | 1.5 | <12 | 0.71 | 18.6 |
| K2M202D208KS##*** | 2000 | 305.0 | 230.0 | 235.0 | 170.0 | 120.0 | 200 | 1.2 | <12 | 0.60 | 20.5 |
| **$U_{NDC}$ 2800Vdc, Us 4200Vdc** | | | | | | | | | | | |
| K2M282D557KS##*** | 550 | 305.0 | 120.0 | 235.0 | 80.0 | 120.0 | 80 | 2.5 | <12 | 0.61 | 10.8 |
| K2M282D907KS##*** | 900 | 280.0 | 230.0 | 205.0 | 170.0 | 100.0 | 130 | 2.1 | <12 | 0.71 | 18.6 |
| K2M282D118KS##*** | 1100 | 305.0 | 230.0 | 235.0 | 170.0 | 120.0 | 150 | 1.8 | <12 | 0.60 | 20.5 |

Remark: 1. # #Output and style; *** Internal code.

2. Customization for special specification and requirement is available.