

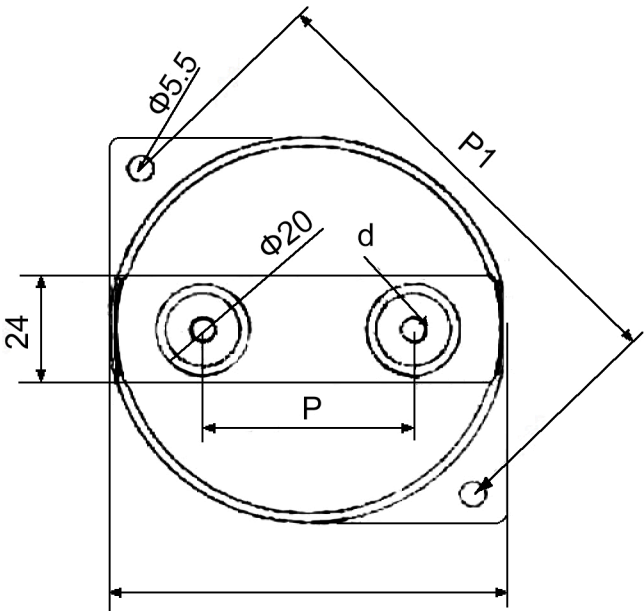
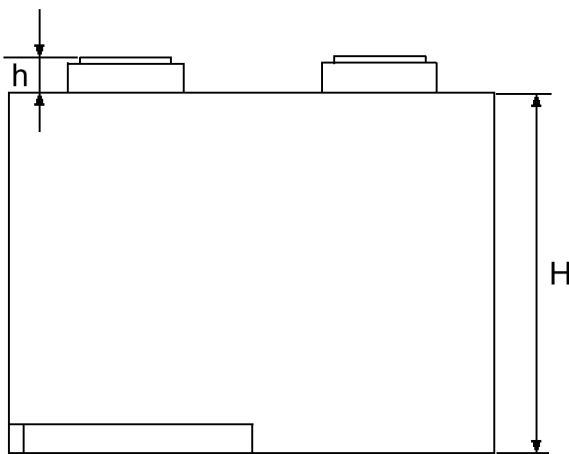
1. Outline Drawing

■ Features

- Used in DC-Link circuits, can replace electrolytic capacitor
- PP film design,good temperature characteristics
- Stable capacity
- Low ESR,high ripple current handing capabilities
- Self-healing property
- Plastic case,filed with fire-retardant resin
- Dry type design
- UL94-V0

■ Applications

- Wind energy,Solar
- Transportation:HEV or EV
- Welders,Elevators,Motor Sriver systems
- High voltage frequency converter



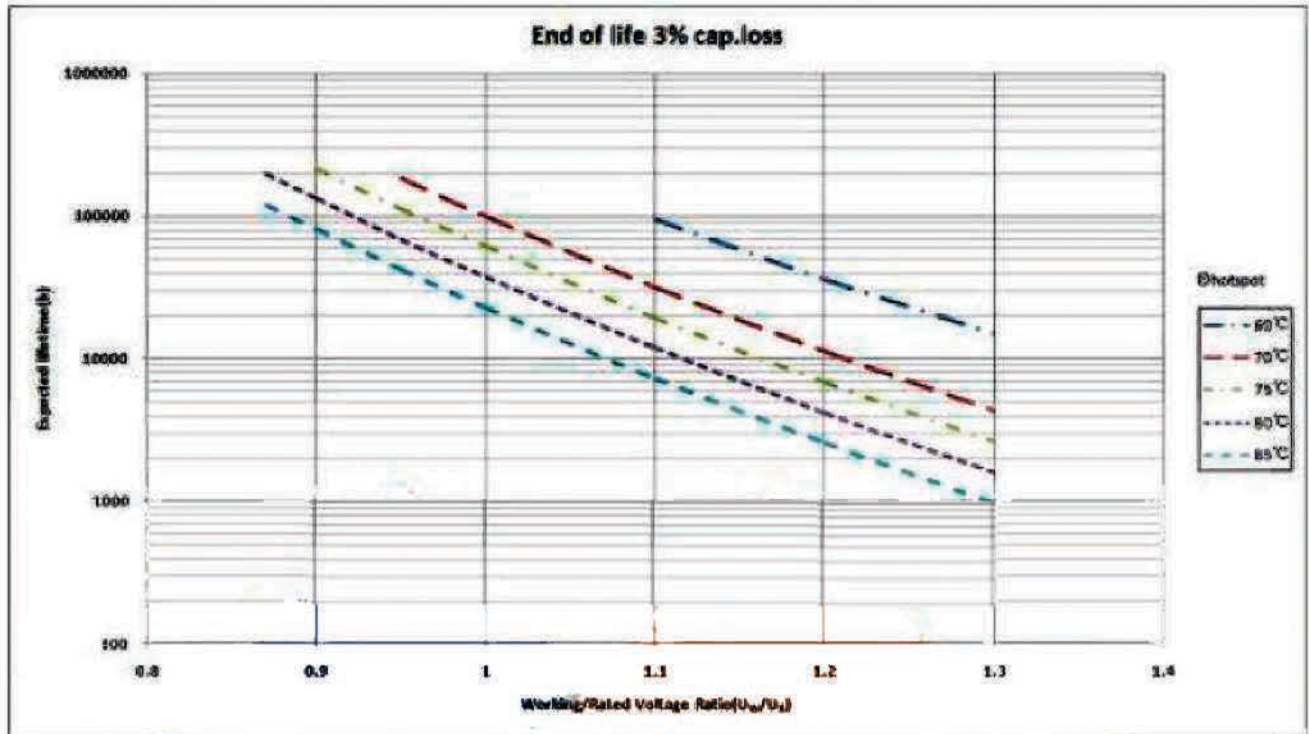
1. H	Length without Terminals	65 (±1)	mm
2. D	Diameter	Φ85 (±1)	mm
3. P	Distance between Terminals	45 (±1)	mm
4. P1	Distance between Installation Hole	101 (±1)	mm
5.	Installation hole size	Φ5.5	mm
6. d	Terminal	M6 *10	mm

2. Technical Data

Product code	MKP-DC
Reference Standard	IEC 61071
(C _R) Rated Capacitance	150μF@100Hz, 25°C±5°C
Capacitance Tolerance	± 10%
(U _R) Rated Voltage (U _R)	900V _{DC}
Environmental Requirements	Comply with ROHS 2.0
1. Main material and mechanical parameters	
metallized film	PP+ Al Zn
plastic core	PC
metal sprayed electrode	Zn
terminals	Brass
deck	PBT
plastic case	PBT
filling with resin	Epoxy
insulation cover	PP
connection electrode	Cu
Dimension (D*H)	Φ85mm×65mm
2 Electrical parameters	
Over-voltage capability (IEC 61071)	
1.1×U _R	30 % of on-load-duration
1.15×U _R	30 min/day
1.2×U _R	5 min/day
1.3×U _R	1 min/day
1.5×U _R	30 ms every time, 100 ms/day
I _{max} at ① A 1KHz	66A(50°C)
Maximum repeatable impulse current (I)	2.7KA (t≤10us)
Equivalent series resistance (ESR)	≤ 1.5mΩ@1kHz, 25°C±5°C
Thermal Resistance (R _{th})	4.5K/W

Dielectric loss tangent (tg60)	2×10^{-4}
Loss tangent (tg6)	$\leq 0.002 @ 100\text{Hz}, 25^\circ\text{C} \pm 5^\circ\text{C}$
Insulation Resistance (IR)	$\geq 10000\text{s} @ 100\text{V}_{\text{dc}}, 25^\circ\text{C} \pm 5^\circ\text{C}$
Test voltage between terminals (U_{TT})	$1.5 \times U_{\text{R}}, 10\text{s} (25^\circ\text{C} \pm 5^\circ\text{C})$
Test voltage between terminal to case (U_{TC})	$3000\text{V}_{\text{AC}}, 10\text{s} (25^\circ\text{C} \pm 5^\circ\text{C})$
Life Expectancy	100000hours ($U_{\text{R}}, \Theta_{\text{hotspot}} = 70^\circ\text{C}$)
Failure Rate	$\leq 10.0 \text{ FIT}$
3. Environmental parameters	
Operating temperature range	$-40 \sim +85^\circ\text{C}$
Maximum Hotspot Temperature	$+85^\circ\text{C}$
Storage temperature	$-40 \sim +85^\circ\text{C}$
Maximum operating humidity	$70^\circ\text{C}, 95\%\text{RH}$
Max. Altitude	1000 m

4. Expected lifetime curve



5. The current decreasing factor for using on different altitudes:

Altitude/m	Derating Coefficient
2500	0.95
3000	0.90
3500	0.85
4000	0.80
4500	0.75
5000	0.70