

DC - Link 金属化薄膜电容器 DKMJ - AP series

铜插片引出，安装简单方便

Plastic package, sealed with epoxy resin;

Copper leads, easy installation

耐压高，具有自愈性

Resistance to high voltage, with self-healing

自感 (ESL) 低，能有效降低反向电压
Low ESR, can effectively reduce the reverse voltage

容量大，体积小

Large capacity, small size

等效串联电阻小，能承受大的纹波电流
Low ESR, high ripple current handling capability

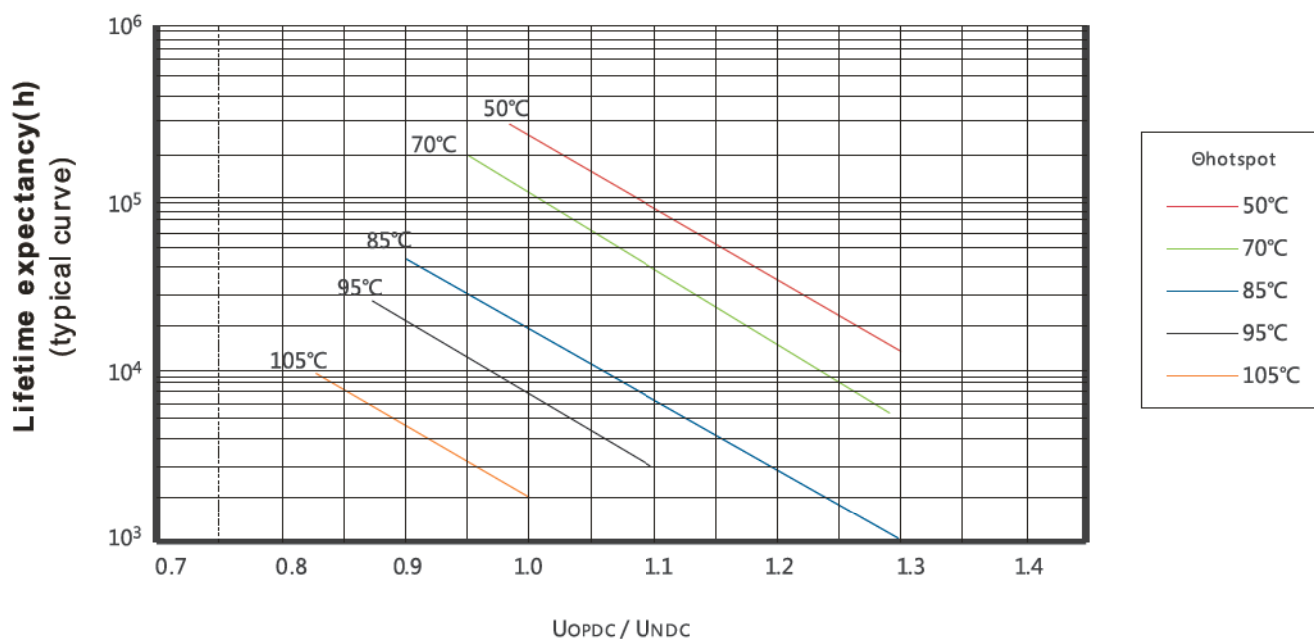
应用

- 广泛应用于电动车和混合动力汽车。

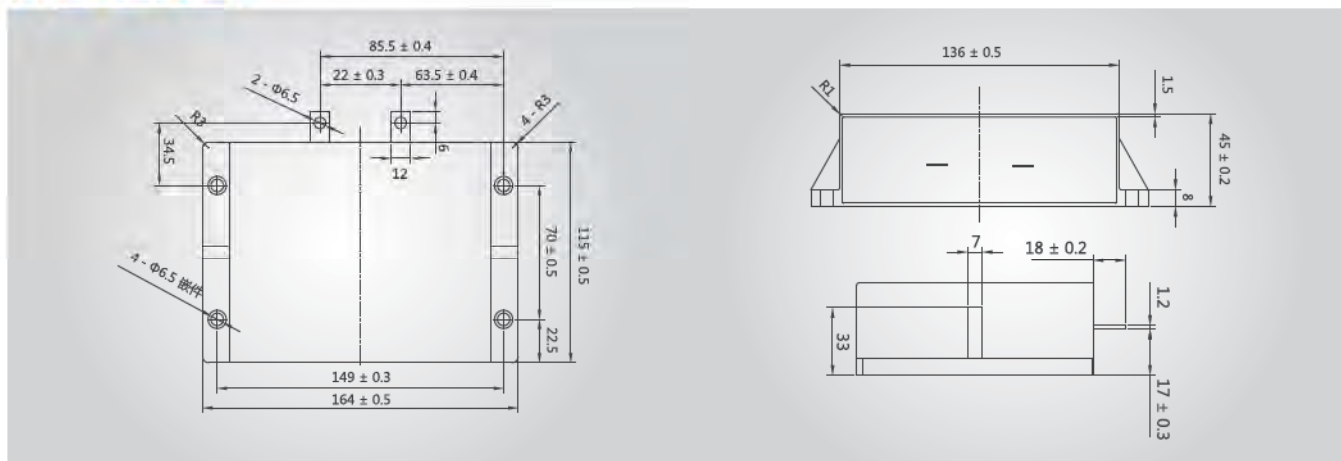
Application

- Widely used in EV and HEV.

预期寿命曲线图 Life expectancy in the graph



尺寸图 Size chart



性能参数 Technical data

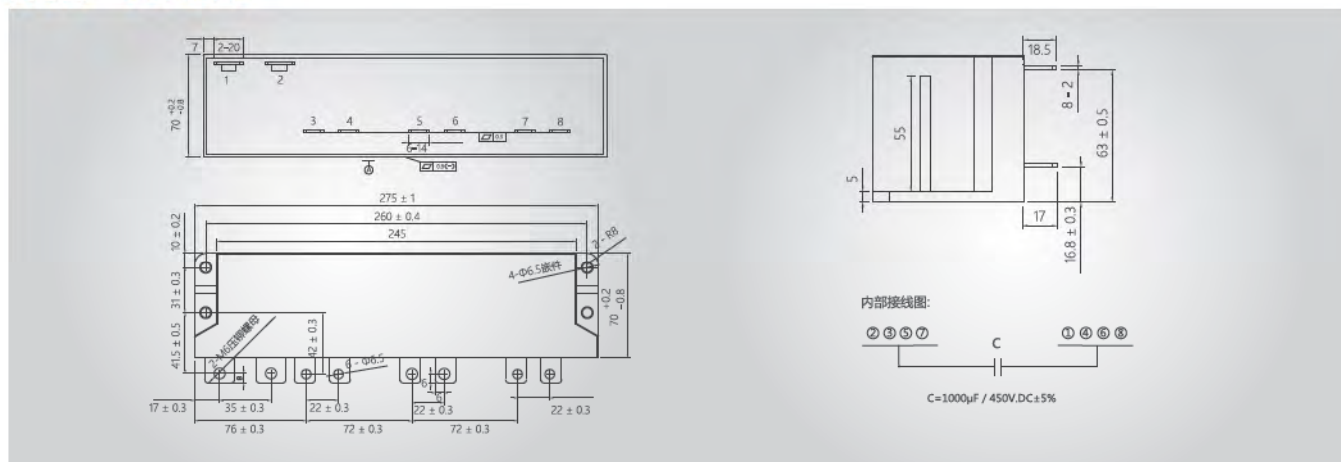
产品编码: MKP61A0450D587K**

工作温度范围 / Operating temperature range	-40°C ~ 105°C	
贮存温度范围 / Storage temperature range	-40°C ~ 105°C	
额定电压 (U_N) / Rated voltage	450V.DC	
额定容量 (C_N) / Rated capacitance	580μF	
容量偏差 / Cap.tol	± 10% (K)	
耐压 / Withstand voltage	Vt - t	1.5 U_N / 10S (20°C ± 5°C)
	Vt - c	3000V.AC / 10S (50Hz , 20°C ± 5°C)
损耗角正切 / Dissipation factor	$\text{tg}\delta \leq 0.001$ $f = 100\text{Hz}$	
	介质损耗 $\text{tg}\delta_0 \leq 0.0002$	
绝缘电阻 / Insulation resistance	$R_s \times C \geq 10000\text{S}$ (at 20°C 100V.DC 60s)	
等效串联电阻 / ESR	$\leq 0.6\text{m}\Omega$ (10KHz)	
自感 / Ls	$\leq 15\text{nH}$	
热阻 / Rth	3.5K / W	
额定电流 / Max. current Irms	80A (70°C)	
浪涌电压 / Non-recurrent surge voltage (U_s)	675V.DC	
脉冲峰值电流 / Maximum peak current ($\bar{I}$)	5.8KA	
浪涌电流 / Maximum surge current (I_s)	11.6KA	
失效率 / Failure quota	$\leq 50\text{Fit}$	
预期寿命 / Life expectancy	参考预期寿命曲线	
引用标准 / Reference standard	IEC61071 ; AEC Q 200D-2010	
重量 / Weight	$\approx 1.0\text{kg}$	
尺寸 / Dimension	164mm×115mm×45mm	



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尺寸图 Size chart



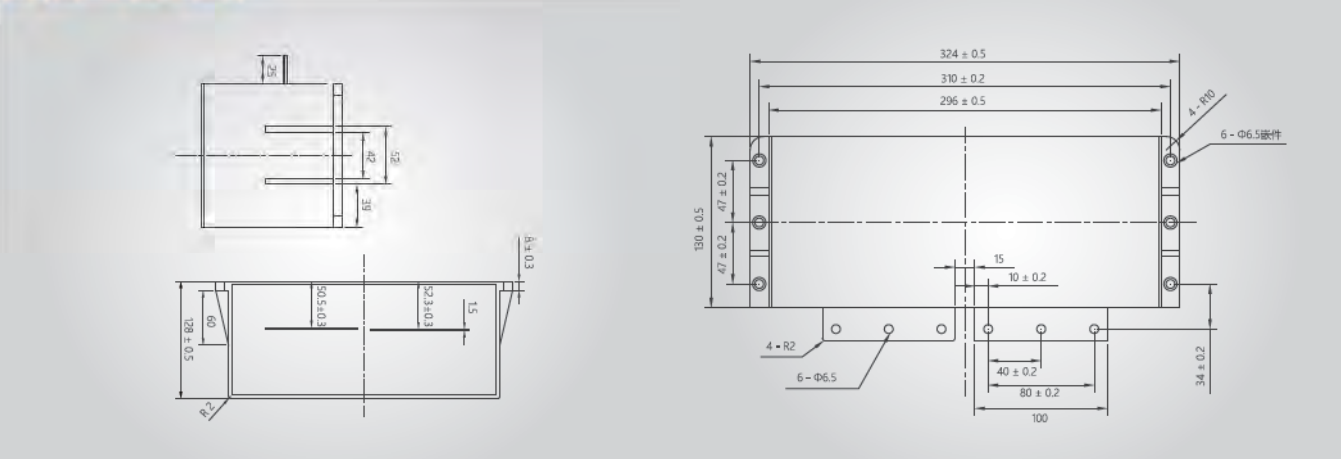
性能参数 Technical data

产品编码: MKP61A0450D108J**

工作温度范围 / Operating temperature range	-40°C ~ 105°C	
贮存温度范围 / Storage temperature range	-40°C ~ 105°C	
额定电压 (U _N) / Rated voltage	450V.DC	
额定容量 (C _N) / Rated capacitance	1000μF	
容量偏差 / Cap.tol	± 5% (J)	
耐电压 / Withstand voltage	V _t - t	1.5U _N / 10S (20°C ± 5°C)
	V _t - c	3000V.AC / 10S (50Hz , 20°C ± 5°C)
损耗角正切 / Dissipation factor	tgδ ≤ 0.001 f = 100Hz	
	介质损耗 tgδ ₀ ≤ 0.0002	
绝缘电阻 / Insulation resistance	R _s × C ≥ 10000S (at 20°C 100V.DC 60s)	
等效串联电阻 / ESR	≤ 0.3mΩ (10KHz)	
自感 / L _s	≤ 20nH	
热阻 / R _{th}	1.8K / W	
额定电流 / Max. current I _{rms}	140A (70°C)	
浪涌电压 / Non-recurrent surge voltage (U _s)	675V.DC	
脉冲峰值电流 / Maximum peak current (Î)	5KA	
浪涌电流 / Maximum surge current (I _s)	15KA	
失效率 / Failure quota	≤ 5 0Fit	
预期寿命 / Life expectancy	参考预期寿命曲线	
引用标准 / Reference standard	IEC61071 ; AEC Q200D - 2010	
重量 / Weight	≈ 2.3kg	
尺寸 / Dimension	275mm × 72mm × 70mm	



尺寸图 Size chart



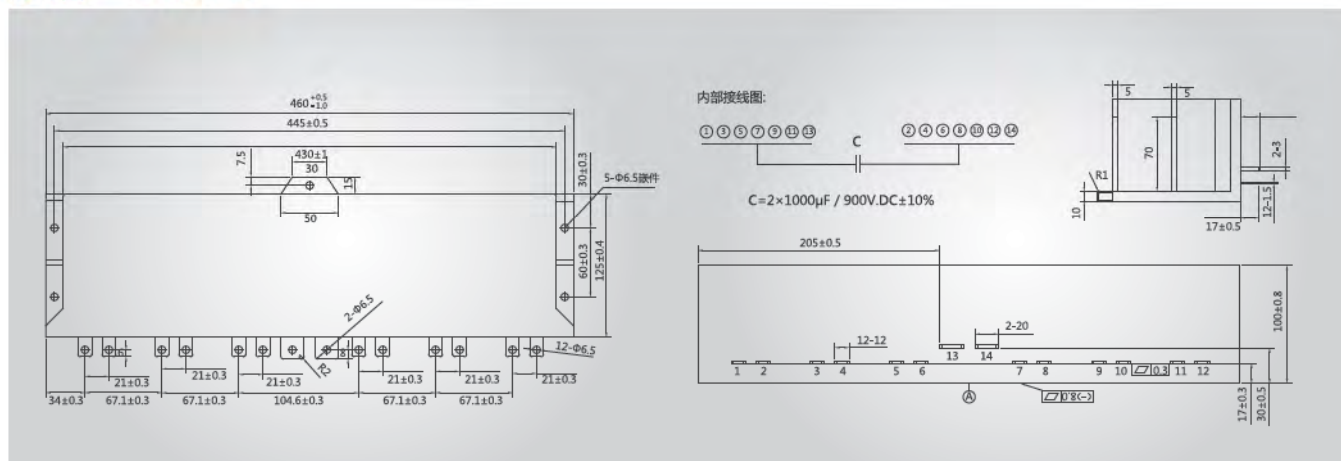
性能参数 Technical data

工作温度范围 / Operating temperature range	-40°C ~ 105°C	
贮存温度范围 / Storage temperature range	-40°C ~ 105°C	
额定电压 (U_N) / Rated voltage	900V.DC	
额定容量 (C_N) / Rated capacitance	1800μF	
容量偏差 / Cap.tol	± 10% (K)	
耐电压 / Withstand voltage	$V_t - t$	1.5 U_N / 10S (20°C ± 5°C)
	$V_t - c$	3000V.AC / 10S (50Hz , 20°C ± 5°C)
损耗角正切 / Dissipation factor	$tg\delta \leq 0.001$ $f = 100Hz$	
	介质损耗 $tg\delta_0 \leq 0.0002$	
绝缘电阻 / Insulation resistance	$R_s \times C \geq 10000S$ (at20°C 100V.DC 60s)	
等效串联电阻 / ESR	$\leq 0.2m\Omega$ (10KHz)	
自感 / L_s	$\leq 20nH$	
热阻 / R_{th}	1.2K / W	
额定电流 / Max. current I_{rms}	160A (70°C)	
浪涌电压 / Non-recurrent surge voltage (U_s)	1350V.DC	
脉冲峰值电流 / Maximum peak current ($\hat{I}$)	7.2KA	
浪涌电流 / Maximum surge current (I_s)	14.4KA	
失效率 / Failure quota	$\leq 50Fit$	
预期寿命 / Life expectancy	参考预期寿命曲线	
引用标准 / Reference standard	IEC61071 ; AEC Q200D - 2010	
重量 / Weight	$\approx 6.7kg$	
尺寸 / Dimension	324mm × 130mm × 128mm	



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尺寸图 Size chart



性能参数 Technical data

产品编码: MKP61A0900D208KT**

工作温度范围 / Operating temperature range	-40°C ~ 105°C	
贮存温度范围 / Storage temperature range	-40°C ~ 105°C	
额定电压 (U _N) / Rated voltage	900V.DC	
额定容量 (C _N) / Rated capacitance	2 × 1000µF	
容量偏差 / Cap.tol	± 10% (K)	
耐电压 / Withstand voltage	Vt - t	1.5U _N / 10S (20°C ± 5°C)
	Vt - c	3000V.AC / 10S (50Hz , 20°C ± 5°C)
损耗角正切 / Dissipation factor	tgδ ≤ 0.001 f = 100Hz	
	介质损耗 tgδ ₀ ≤ 0.0002	
绝缘电阻 / Insulation resistance	R _s × C ≥ 10000S (at20°C 100V.DC 60s)	
等效串联电阻 / ESR	≤ 0.3mΩ (10KHz)	
自感 / L _s	≤ 25nH	
热阻 / R _{th}	0.5K / W	
额定电流 / Max. current I _{rms}	200A (70°C)	
浪涌电压 / Non-recurrent surge voltage (U _s)	1350V.DC	
脉冲峰值电流 / Maximum peak current (Î)	10KA	
浪涌电流 / Maximum surge current (I _s)	20KA	
失效率 / Failure quota	≤ 50Fit	
预期寿命 / Life expectancy	参考预期寿命曲线	
引用标准 / Reference standard	IEC61071 ; AEC Q200D-2010	
重量 / Weight	≈ 7.8kg	
尺寸 / Dimension	460mm × 125mm × 100mm	

