

特点与用途

- ◆ 采用耐高温聚丙烯薄膜介质，加厚型金属化电极，无感卷绕结构；
- ◆ 塑料外壳，导热性环氧树脂封装；
- ◆ 产品体积小，散热良好；
- ◆ 采用镀锡铜端子引出；
- ◆ 自感小、等效串联电阻低；
- ◆ 承受电流冲击能力强；
- ◆ 广泛应用于直流滤波电路中，可代替电解电容器。
- ◆ 应用于电动车和混合动力车；
- ◆ 电机驱动、焊接设备、电梯。

Features & Applications

- ◆ High-temperature resistant PP film as dielectric, thickening metallized electrodes, no inductance winding structure.
- ◆ Plastic housing, potted with the thermally conductive epoxy resin.
- ◆ Small product size and excellent heat dissipation.
- ◆ Using tinned copper terminals as a lead.
- ◆ Low self-inductance and equivalent series resistance.
- ◆ Strong ability for withstanding impacting of current.
- ◆ Widely applicable to DC filter circuits and ideal to instead of electrolytic capacitor.
- ◆ Electromobile and hybrid power vehicle.
- ◆ Motor driving, welding equipment and elevator.

认证
Certification

	中国 China	GB/T 17702-2013
	德国 Germany	IEC 61071:2007
AEC-Q200	美国 USA	AEC-Q200 REV D:2010

技术参数
Technical Parameter

气候类别 Climatic category	40/85/56, 40/105/56
工作温度 Working temperature	-40°C ~ +85°C/105°C (Under +85°C ~ +105°C, temperature increased by one degree, voltage reduced 1.35U _N) [$\Theta_{max}(\text{hotspot}) \leq +85^\circ\text{C}/105^\circ\text{C}$]
存储温度 Storage temperature	-40°C ~ +85°C/105°C
额定电压 Rated voltage	400Vdc ~ 1500Vdc
电容量范围 Range of capacitance	35 μF ~ 600 μF
电容量允许偏差 Allowable capacitance deviation	$\pm 5\%(\text{J}), \pm 10\%(\text{K})$
极间测试电压 Voltage test between terminals	1.5U _N (10s, 25°C $\pm 5^\circ\text{C}$)
极壳测试电压 Voltage test between terminals and case	4000Vac (60s, 50/60Hz, 25°C $\pm 5^\circ\text{C}$)
介质损耗角正切 Dielectric dissipation factor	2×10^{-4}
过电压 Over-voltage	1.1U _N (30% of on-load-dur) 1.15U _N (30min/day) 1.2U _N (5min/day) 1.3U _N (1min/day) 1.5U _N (30ms every time, 1000times)

时间常数 Time constant $\geq 5000\text{s}(100\text{Vdc}, 25^\circ\text{C} \pm 5^\circ\text{C})$

最大电极扭矩 Maximum terminal torque M5:2.5Nm M8:6.0Nm

最大安装扭矩 Maximum installation torque 3.0Nm

失效率 Loss of efficiency 100 FIT

预期寿命参考曲线 Life expectancy reference curve

