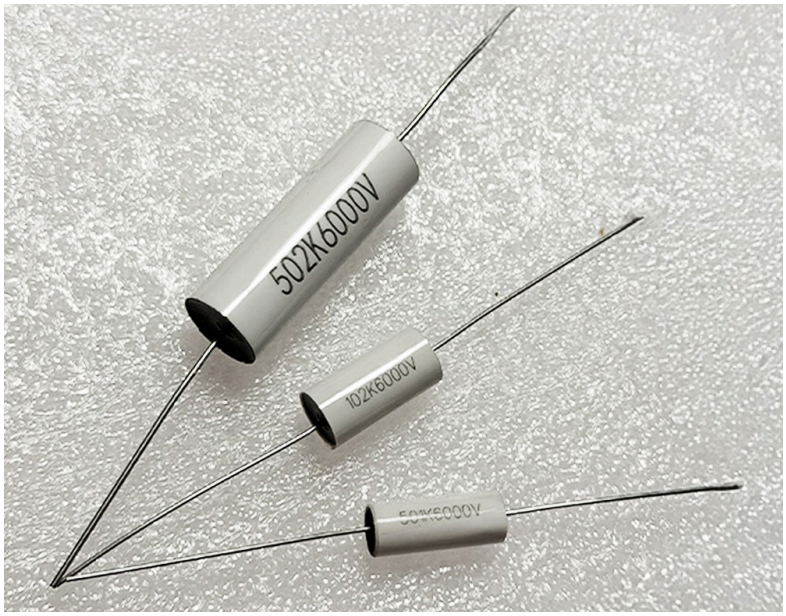
ETM

Specification

Part Name：Metallized Polypropylene Film Capacitor Axial Type

Specification： CBB20: 501K6000VDC / +/-10% /MPT-501K6000VB

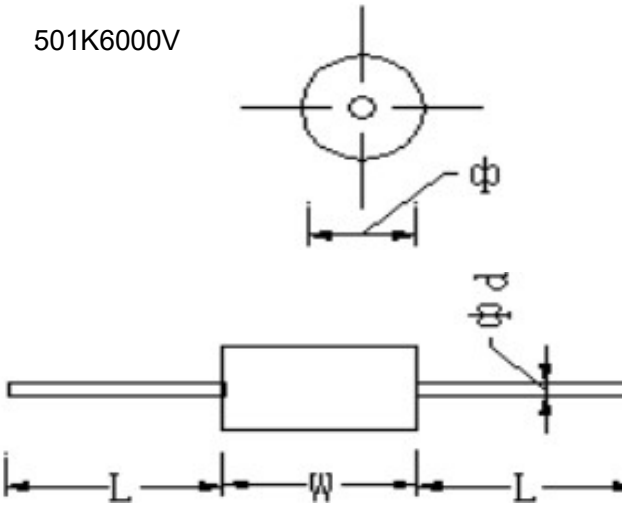


Features:

- Long life due to self-healing
- High Insulation Resistance
- Low Dissipation Factor and ESL
- Non-Inductive Construction
- High Dielectric Strength
- Very low loss in high frequency, suitable for high current.
- Small Inherent Temperature Rise
- White flame retardant tape and black epoxy fill
- Long straight tinned copper leads

Common Applications:

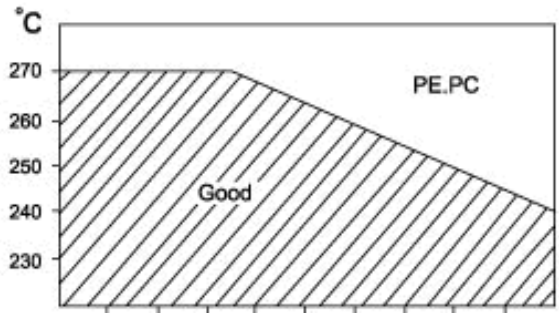
- Pulse Power Systems (X-ray machines / pulsed lasers / medical defibrillators).
- Audio and High Fidelity Equipment (loudspeaker crossover networks / amplifiers).
- TV and CRT Equipment (tube/valve television sets / monitors / color TV sets).
- Industrial and Scientific Instruments (test equipment / oscilloscopes).
- Lighting and Motor Control (motor starters / HID lighting ballasts).
- High Voltage Power Supplies and Filtering
- Power Systems (HV filtering / timing circuits / pulse operations).

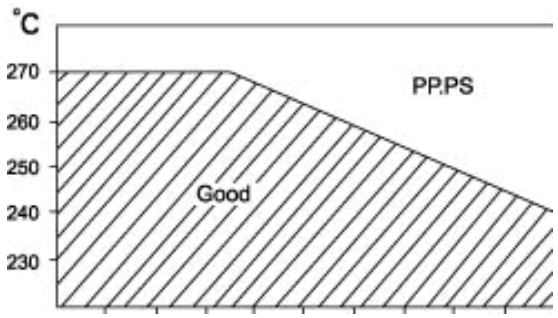
Specifications		Outline
Citation specifications	GB/T3667-1　IEC60252-1	501K6000V 
Climate categories	40/105/21	
Temperature range	-40℃~105℃	
Capacity	0.0005uF	
Capacity Tolerance	J(±5%)，K(±10%)	
Rated Voltage	6000VDC	
Withstand Voltage	9000VDC (When the temperature is abve 85℃ but below 105℃, the rated voltage decreases by 1.25% UR℃)	
Loss Tangent	≤0.001（20℃　1KHz）	
Insulation resistance IR (20℃ 1Min)	C_R≤0.33μF　≥10000MΩ	
	C_R>0.33μF　≥7500MΩ/uF	

PN：	MPT-501K6000VB				
Dimension（mm）					
TYPE	W(Max-mm)		D(Max-mm)	Φd(±0.05)	L(min)
501K6000V	21		8.0	0.8CU	45
Note:	White flame-retardant PET tape, black epoxy potting.				

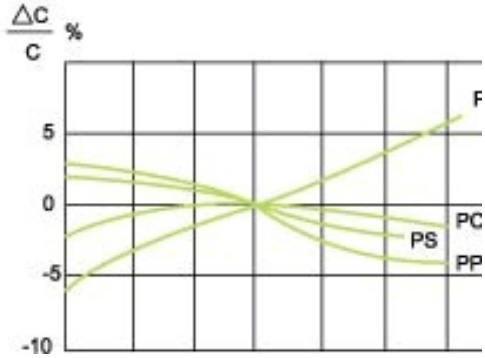
Electrical Characteristics of Film Capacitor

1. Soldering Temperature VS Time

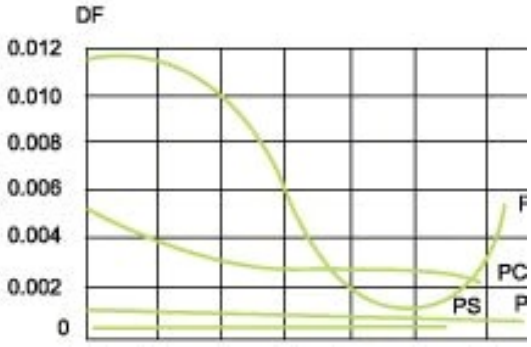




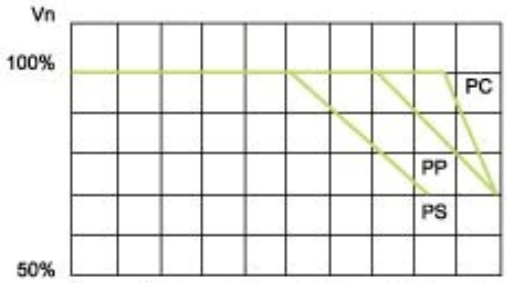
2. Temperature Characteristic



Capacitance vs. Temperature



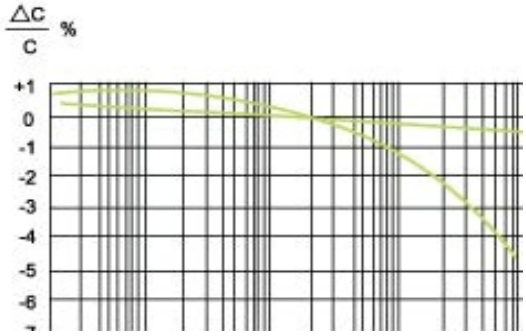
Dissipation Factor vs. Temperature



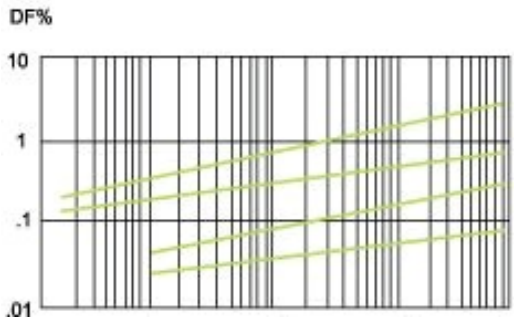
Operation voltage vs. Temperature

(CR value) IR vs. Temperature

3.Frequency Characteristics



Capacitance vs. Frequency



Dissipation Factor vs. Frequenc