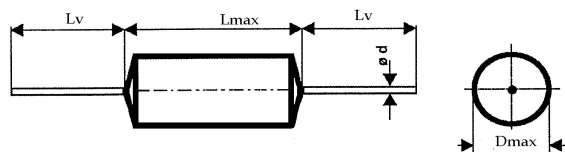
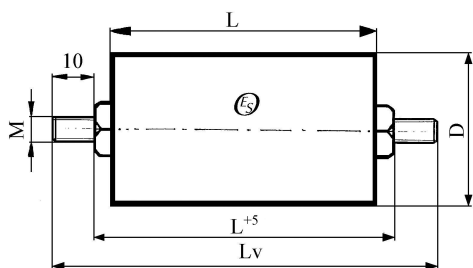


## KPI 500-088L CAPACITORS FOR DC & AC APPLICATIONS

**construction A** – tinned copper wire leads 1,0x40mm



**construction B** – screw M6x10mm



Capacity [nF]	Dimensions [mm]		
	D	L	L <sub>v</sub>
33	25	60	80

### Construction:

Metallic electrodes, polypropylene film dielectric, non-inductive, self-healing construction,  
Plastic cylindrical flame retardant case  
Leads: Tinned cooper wire leads 1,0 x 40mm or screws M6x10

### Applications:

DC and AC applications with high pulse loading

### Technical data

**Rated voltage  $U_R$ :** 10 000V DC

Rated voltage is the max. DC or peak voltage, for which the capacitor is designed.

If the capacitor works with the DC and also super-imposed AC voltage  $U_{AC}$ , the sum of DC and the amplitude of AC must not exceed the  $U_R$

**Max recommended AC voltage:** 2000Vac

If the working frequency is higher, the recommended AC voltage should be decreased, not to exceed the max. loss power of the capacitor.

**Rated capacitance:** 33nF

**Tolerance:**  $\pm 5\%$ ,  $\pm 10\%$ ,

**Dissipation factor  $Tg\delta$ :**  $< 0,00030$  at 10kHz

**Insulation resistance  $R_{IS}$ :** 30 000/C [ $M\Omega$ ]

**Operating temperature range:**  $-40 \div +70^\circ C$

The highest permissible capacitor temperature at the hottest point of the case should not exceed  $+70^\circ C$ .

**Max. permitted dissipation power of the capacitor** depend on the construction of the capacitor and the cooling conditions

**Test voltage between terminals:** 10kVDC, 10sec at  $+25^\circ C$ ,

All capacitors are tested by the routine test by the manufacturer

### Protection against Over-voltages:

The capacitors are self-healing and regenerate themselves after occasional breakdowns. The capacitor remains fully functional after the breakdown.

### Permitted Over-voltages in working conditions:

$1,1 \times U_R$  max. 10% of the service period

If the Over-voltages exceed the permissible values above, the capacitor might have been destroyed.

**Test voltage between terminals and case:** 12 500VDC, 1min. at  $+25^\circ C$

**Max. repetitive rate of voltage rise  $dU/dt$ :**  $< 1000V/\mu sec$  at  $U_R$  and  $+25^\circ C$

**Max. peak current  $I_p$ :**  $< C_R \times dU/dt$

**Related standards:** EN 60384-1

### Marking for purchase ordering:

KPI500-088L 33nF $\pm 5\%$  2000Vac

**Warning!** The manufacturer is not responsible for any damages, caused by the improper installation and application. Before using the capacitor in any application, pleas, read carefully this technical data-sheet.