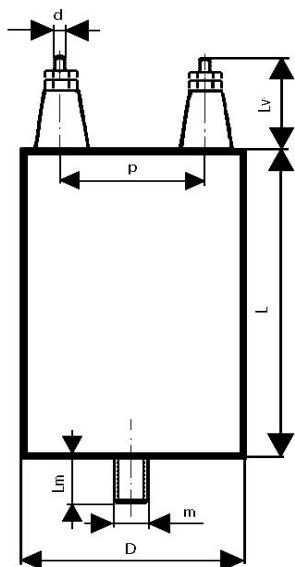


## KPI 500-093 CAPACITORS FOR DC & AC APPLICATIONS

### Construction L



Capacity [nF]	Dimensions [mm]		
	D	L	p
50	50	150	50
68	63	150	50
82	75	150	50
100	75	150	50

### Construction:

Metallic electrodes, polypropylene film dielectric, non-inductive, self-healing construction,  
Plastic cylindrical flame retardant case  
Leads are screws M6x10 on the upper face of the case. Bottom screw M8x15 for mounting.

### Applications:

DC and AC applications with high pulse loading

### Technical data

**Rated voltage  $U_R$ :** 16 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 permissible AC voltage:** 4000V 50/60Hz,

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

**Rated capacitance:** 50 ÷ 100nF,

other capacity on request

**Tolerance:** ±20%, ±10%,

**Dissipation factor  $Tg\delta$ :** < 0,0006 at 1kHz and +25°C

**Operating temperature range:** -40 ÷ +70°C

The highest permissible capacitor temperature at the hottest point of the case must not exceed +70°C.

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

**Test voltage between terminals:** 18 000VDC, 10sec. at +25°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 x  $U_R$  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:**

18 000VDC, 1min. at +25°C

**Max. repetitive rate of voltage rise  $dU/dt$ :** < 500V/μsec at  $U_R$  and +25°C

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

**Related standards:** IEC 60384-1

### Marking for purchase ordering:

KPI500-093 100nF±10% 16 000V DC

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