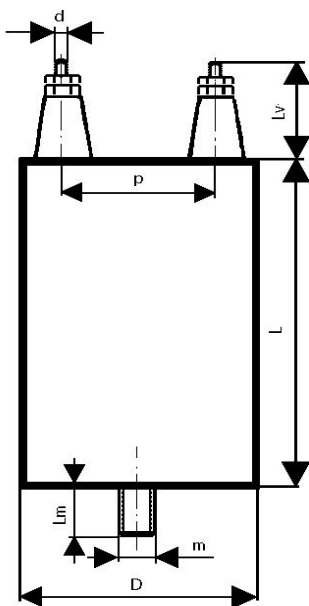


## KPI 500-105 CAPACITORS FOR DC & AC APPLICATIONS

### Construction L



Capacity [uF]	Dimensions [mm]			Weight [g]
	D	L	p	
0,22	55	70	30	
0,5	75	125	40	

### Construction:

Metallic electrodes, polypropylene film dielectric, non-inductive, self-healing construction,  
Plastic cylindrical flame retardant case  
Leads are screws M4x6 or M6x10 on the upper face of the case. Bottom screw M8x10 for mounting.

### Applications:

DC and AC applications with high pulse loading

### Technical data

**Rated voltage  $U_R$ :** 6300V 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:** 2000V 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:** 0,5uF,

other capacity on request

**Tolerance:**  $\pm 20\%$ ,  $\pm 10\%$ ,

**Dissipation factor  $Tg\delta$ :**  $< 0,0006$  at 100Hz and  $+25^\circ\text{C}$

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

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

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

**Test voltage between terminals:** 7,5 kVDC, 10sec. at  $+25^\circ\text{C}$ ,

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:** 10 kVDC, 1min. at  $+25^\circ\text{C}$

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

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

**Related standards:** IEC 60384-1

### Marking for purchase ordering:

KPI500-105 0,5 uF $\pm 10\%$  6,3 kV 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.