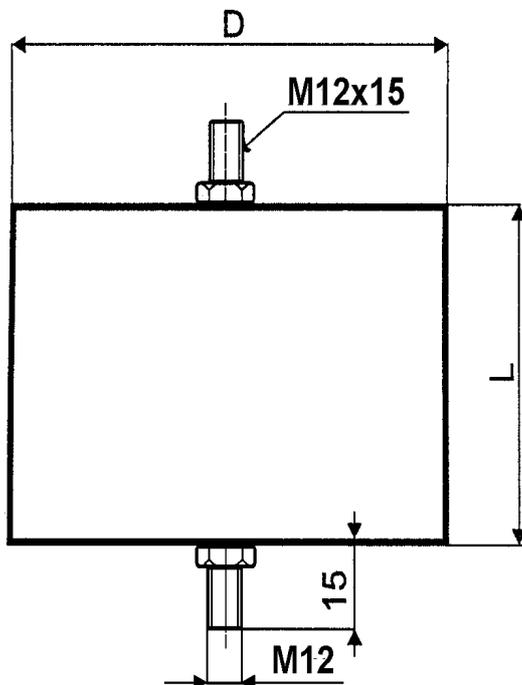


## KPI 500 – 085 HIGH VOLTAGE CAPACITORS



C* [µF]	Dimensions [mm]	
	D	L
0.5	50	75
1.0	63	75
2	63	130

\*Other capacitance on request

### Construction:

Metal foil electrodes, polypropylene-film dielectricum, non-inductive, self-healing construction  
Plastic cylindrical flame retardant case, with bottom and upper screw M112x15

### Applications:

High voltage pulse applications, high frequency, high peak current applications and snubber applications.

### Technical data

**Rated voltage  $U_R$ :** 2500DC

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:** 800V 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.

$$U_{MAX} = \sqrt{\frac{P_L}{2\pi \times f \times C_R \times \text{tgD}}}$$

**Rated capacitance:** 0,5µF ÷ 2,0µF

**Tolerance:** ±20%, ±10%,

**Dissipation factor  $\text{Tg}\delta$ :** < 0,001 at 1kHz and +25°C

**Insulation resistance  $R_{IS}$ :** >10 000MΩ

**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**

$P_L$ : depend on the construction and the cooling conditions, In normal conditions and the ambient temperature < 40°C  $P_L=15W$

**Test voltage between terminals:** 1,2 x  $U_R$ , 1min. at +25°C, all capacitors are tested by the routine test by the producer

**Permitted overvoltages in working conditions:**

1,1 x  $U_R$  for 2 sec.

If the overvoltages exceed the permissible values above, the capacitor might have been destroyed.

**Test voltage between terminals and case:**

3000VDC, 1min. at +25°C

**Max. repetitive rate of voltage rise  $dU/dt$ :**

< 1000V/usec at  $U_R$  and +25°C

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

**Terminals:** screws M12

**Bottom-screw:** M12x15 or M10x20

**Related standards:** IEC 60384-1

**Marking for purchase ordering:**

KPI500-085 2,0µF 2500VDC

**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.