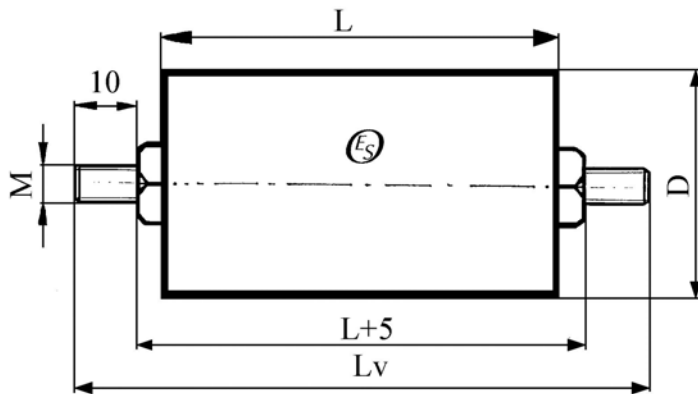




KPI 500 – 077 HIGH VOLTAGE CAPACITORS



C* [uF]	Dimensions [mm]		
	D	L	Screw-leads M
4,7	40	170	M8x10

*Other capacitance on request

Construction:

Metal foil electrodes, polypropylene-film dielectric, non-inductive, self-healing construction
Plastic cylindrical flame retardant case, with bottom and upper screw-leads M6x10 or M8x10

Applications:

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

Technical data

Rated voltage U_R : 30 000DC

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.

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

Rated capacitance: 3nF \pm 15nF

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

Dissipation factor $\text{Tg}\delta$: $<$ 0,0008 at 1kHz and $+25^\circ\text{C}$

Insulation resistance R_{IS} : $>$ 1000M Ω

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

P_L : depend on the construction and the cooling conditions

Test voltage between terminals: $1,1 \times U_R$, 1min. at $+25^\circ\text{C}$, all capacitors are tested by the routine test by the producer

Permitted over-voltages in working conditions:

$1,1 \times U_R$ for 2 sec.

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

Test voltage between terminals and case:

33000VDC, 1min. at $+25^\circ\text{C}$

Max. repetitive rate of voltage rise dU/dt :

$<$ 2000V/usec 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:

KPI500-077 4,7nF 30 000VDC

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.