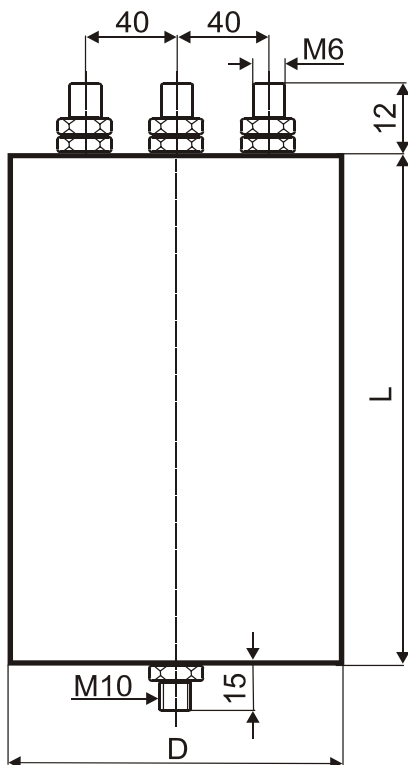




CAPACITORS FOR HIGH VOLTAGE APPLICATIONS MKP 500-081



Capacit. C_R [μ F]	Dimensions [mm]			
	D	L	Terminal screws	Bottom screw
2x0,4	110	130	M6	M10

Construction:

Metallized electrodes, Polypropylene-film dielectricum, Non-inductive, self-healing construction, Plastic cylindrical flame retardant case, with bottom screw M10x15 or M10x20

Applications:

High Voltage capacitors for DC applications as coupling, decoupling and filtering, HV DC power supplies and other DC applications with low ripple current

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 permissible AC voltage: 3000V 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.

$$\text{Max. } U_{AC}(f) < \sqrt{\frac{P_L}{2\pi f C R}}$$

Rated capacitance: 2x0,4 μ F

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

Dissipation factor $Tg\delta$: $< 0,01$ at 1kHz and $+25^\circ\text{C}$

Insulation resistance R_{IS} : $> 10\,000\text{M}\Omega$

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 of the capacitor and the cooling conditions, $P_L=15\text{W}$ at $+25^\circ\text{C}$

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

Protection against Overvoltages:

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

Permitted Overvoltages in working conditions:

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

If the Overvoltages exceed the permissible values above,

the capacitor might have been destroyed.

Test voltage between terminals and case:

15 000VDC, 1min. at $+25^\circ\text{C}$

Max. repetitive rate of voltage rise dU/dt :

$< 20\text{V}/\mu\text{sec}$ at U_R and $+25^\circ\text{C}$

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

Terminals: screws M6

Bottom-screw M10x15, or M10x20

Related standards: IEC 60384-1

Marking for purchase ordering: MKP500-081

2x0,4 μ F 10 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.