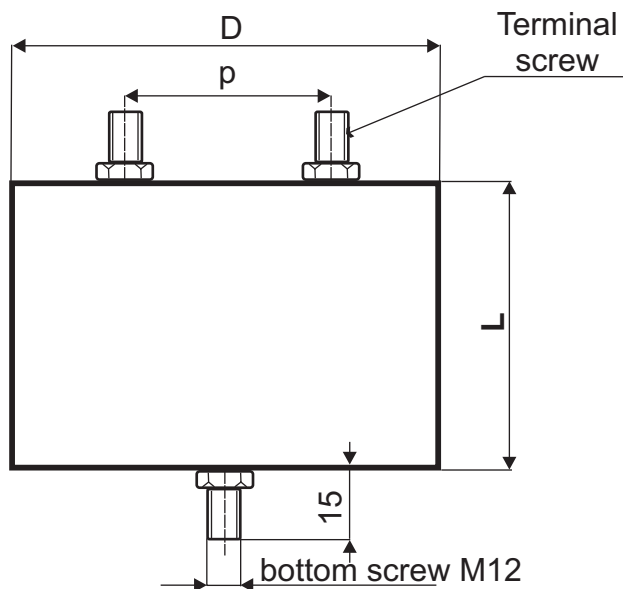


# MKP Capacitors

## MKP 300 - 122



Capacit. $C_R$ ( $\mu\text{F}$ )	Dimension [mm]				
	D	L	p	Terminal screws	$P_L$ [W]
400	160	130	100	M10	10

### Construction:

Metallized polypropylene film, Non-inductive, self-healing construction. Plastic cylindrical flame retardant case, with bottom screw M12x15 available

### Applications:

Filtering, smoothing, all other DC applications

### Technical data:

#### Rated voltage $U_R$ : 1200V 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:** 500V 50Hz,  
If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the max. loss power of the capacitor.

$$\text{Max. } U_{AC(f)} = \sqrt{\frac{P_L}{2\pi f C_R \times \text{tg}\delta}}$$

#### Rated capacitance: 400 $\mu\text{F}$

**Tolerance:** 5%,

**Dissipation factor  $T_g$ :** < 0,01 at 100Hz and +25°C

**Insulation resistance  $R_{i,s}$ :** >10 000/C [M $\Omega$ ]

**Operating temperature range:** -40 ÷ +85°C

The highest permissible capacitor temperature at the hottest point of the case must not exceed +85°C.

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

**Test voltage between terminals:** 1,25 x  $U_R$ , 1min. at +25°C

All capacitors are tested by the routine test by the manufacturer

#### 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 x  $U_R$  max. 30% of the service period

1,15x  $U_R$  max.30min./day

1,2 x  $U_R$  max. 5min./day

1,3 x  $U_R$  max. 1min./day

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:

< 10V/ $\mu\text{sec}$  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:** MKP 300-122

**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.