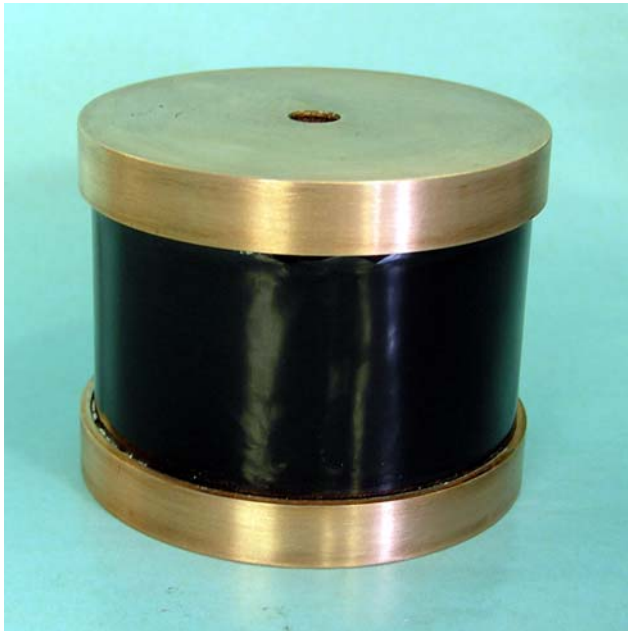
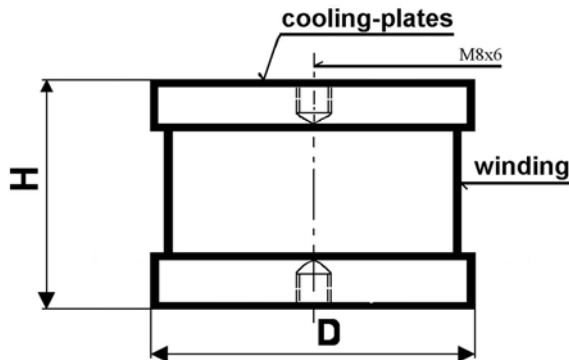


MKP 300-207 SPECIAL POWER CAPACITORS FOR HIGH PULSE LOADING AND HIGH FREQUENCY INDUCTION HEATING



Capacitor 5uF/1500VDC

Dimensions:



C [μF]*	Dimensions [mm]	
	D	H
2,0	50	56 ⁺¹
3,0	60	56 ⁺¹
5,0	70	56 ⁺¹
10,0	100	56 ⁺¹
12,0	110	56 ⁺¹

*Other capacity on request

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.

Construction:

Special winding units soldered on metal plates, which ensure good cooling of the capacitors. The winding unit have non-inductive, self-healing construction,

Applications:

The capacitors are designed for use in high power and high pulse loading and in high frequency resonant circuits of induction heating devices.

The construction of contact-plates are adaptable in accordance to customer requirements.

Technical data:

Rated voltage U_R: 1500VDC up to +70°C recommended working voltage 1200 ÷ 1500VDC, depend on the cooling-condition and working frequency. 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: 700 V_{RMS} 50Hz by good cooling. If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the max. loss power of the capacitor.

$$P_L = U_{ef}^2 \times 2\pi f \times C_R \times tgD$$

The max. loss power must to be lower than max. power dissipated by the capacitor under the cooling-condition. The power, which the capacitor can radiate

$$P_R = S \times \Delta T \times K$$

S: surface of the case [cm²]
 ΔT: temperature rise max. 10°C
 K: coefficient [mW/°C x cm²], depend on the cooling-condition

Max. permitted dissipation power of the capacitor: depend on the cooling conditions of the capacitors

Rated capacitance:

2,0 ÷ 12 uF other capacitance on request

Tolerance: ±10%, other tolerance on request

Dissipation factor Tgδ: < 0,0006 at 1kHz and +25°C

ESR: at 100kHz and +25°C < 5mΩ

Self resonant frequency of the winding unit:

> 0,5MHz

Working frequency of the capacitors: up to 200kHz

Insulation resistance R_{IS}: 30 000/C [MΩ]

Operating temperature range: -40 ÷ +70°C

The highest permissible capacitor temperature at the hottest point of the case must not exceed +70°C.

Test voltage between terminals: 1 800VDC, 10sec at +25°C,

All capacitors are tested by the routine test by the producer

Marking for purchase ordering:

MKP300-207 5uF±10% 1500VDC