

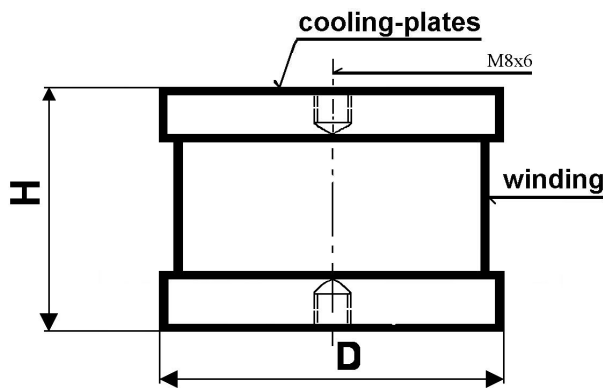


## KPI 300-230 SPECIAL POWER CAPACITORS FOR HIGH PULSE LOADING AND HIGH FREQUENCY INDUCTION HEATING



Informative photo

Dimensions:



C [μF]*	Dimensions [mm]		U <sub>R</sub> [Vdc]	ESR[mΩ] at 100kHz
	D	H		
1,0	70	71,5	3000	<1,0
1,5	80	71,5	2500	<1,0
2,5	80	71,5	1600	<1,0
3,0	80	71,5	1600	<1,0
4,0	80	71,5	1600	<1,0

\*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 metallic electrodes and 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<sub>R</sub>:** See table, up to +70°C recommended working voltage 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<sub>AC</sub>, the sum of DC and the amplitude of AC must not exceed the U<sub>R</sub>

**Max permissible AC voltage:** 750 V<sub>RMS</sub>/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. The max. loss power must be lower than max. power dissipated by the capacitor under the cooling-condition.

**Max permissible AC Current:** 800 A<sub>RMS</sub>

### Rated capacity:

1,0 ÷ 4,5 uF other capacity on request

**Tolerance:** ±10%, other tolerance on request

**Self resonant frequency of the winding unit:** > 0,4MHz

**Working frequency of the capacitors:** up to 200kHz

**Operating temperature range:** up to +70°C

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

**Test voltage between terminals:** 1000V 50Hz, 10sec at +25°C,

All capacitors are tested by the routine test by the producer

### Marking for purchase ordering:

KPI 300-230 3uF±10% 1600VDC