

## KPI 300-148 0,8 $\mu$ F 3kVDC SPECIAL HIGH POWER CAPACITORS FOR HIGH FREQUENCY INDUCTION HEATING



Measurement of the capacitors at 400kHz

C [ $\mu$ F]	Dimensions [mm]		
	B	L	H
0,8	65	80	60 <sup>+1</sup>

Other capacitance on request

**Marking for purchase ordering:**  
KPI300-148 0,8 $\mu$ F  $\pm$ 10% 3kVDC

**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 cooling of the capacitors. The winding units have non-inductive, self-healing construction,

### Applications:

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

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

### Technical data:

**Rated voltage  $U_R$ :** 3000 VDC

**Max permissible AC voltage:** 1000  $V_{RMS}/50Hz$

**Max permissible AC current:** 400  $A_{RMS}/50Hz$

**Rated capacitance:**

0,5  $\div$  1 $\mu$ F, other capacitance on request

**Tolerance:**  $\pm$ 10%, other tolerance on request

**Dissipation factor  $Tg\delta$ :** < 0,0002 at 1kHz and +25°C

**ESR:** at 100kHz and +25°C < 1m $\Omega$

**ESL:** lower than 5nH

**Self resonant frequency of the winding unit:** > 2MHz

**Working frequency of the capacitors:** up to 1MHz

**Insulation resistance  $R_{IS}$ :** 30 000/C [M $\Omega$ ]

**Operating temperature range:** -40  $\div$  +70°C

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

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

**Test voltage between terminals:** 3500VDC, 1min at +25°C,

All capacitors are tested by the routine test by the producer

