

**KPI 300-148J SPECIAL POWER CAPACITORS FOR HIGH FREQUENCY INDUCTION HEATING**



**Dimensions:** B=80, L=80, H=72,5<sup>+2,5</sup>mm

**Marking for purchase ordering:**  
KPI300-148J 1,5uF ±10%

**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 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  $U_R$ :** 1500DC

**Max permissible AC voltage:** 600  $V_{RMS}$  50Hz  
250 $V_{RMS}$  up to 100kHz

**Max permissible AC current:** 200  $A_{RMS}$  depends on the cooling conditions

**Rated capacitance:**

1 ÷ 2uF, other capacitance on request

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

**Dissipation factor  $Tg\delta$ :** < 0,0005 at 1kHz and +25°C

**ESR:** at 100kHz and +25°C < 2mΩ

**Self resonant frequency of the winding unit:** ~0,5MHz

**Working frequency of the capacitors:** up to 0,1MHz

**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.

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

**Test voltage between terminals:** 2000VDC, 2min at +2

All capacitors are tested by the routine test by the producer

