SPECIAL HIGH POWER CAPACITORS FOR HIGH FREQUENCY INDUCTION HEATING

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 $U_r$: 3000DC
Max permissible AC voltage: $800\text{V}_{\text{RMS}}/50\text{Hz}$
Rated capacitance:
- $50\text{nF} \div 270\text{nF}$, other capacitance on request
- Tolerance: $\pm 10\%$, other tolerance on request
Dissipation factor $T_g$: $0.0002$ at $1\text{kHz}$ and $+25^\circ\text{C}$
ESR: at $100\text{kHz}$ and $+25^\circ\text{C}$ $< 2\Omega$
ESL: lower than $5\mu\text{H}$
Self resonant frequency of the unit: $> 4\text{MHz}$
Working frequency of the capacitors: up to $1\text{MHz}$
Insulation resistance $R_{IS}$: $30\ 000\Omega$ [MΩ]
Operating temperature range: $-40 \div +70^\circ\text{C}$
The highest permissible capacitor temperature at the hottest point of the case must not exceed $+70^\circ\text{C}$.
Max permitted dissipation power of the capacitor: depend on the cooling conditions of the capacitors

Test voltage between terminals: $3500\text{VDC}$, $2\text{min}$ at $+25^\circ\text{C}$,
All capacitors are tested by the routine test by the producer.

Dimensions:
$B=65$, $L=80$, $H=43^{+1}$ mm, other dimensions on request

Marking for purchase ordering:
KPI300-148 $270\text{nF} \pm 10\%$
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.