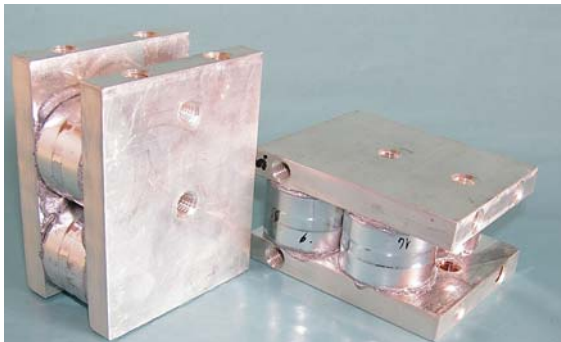




KPI 300-148 SPECIAL HIGH POWER CAPACITORS FOR HIGH FREQUENCY INDUCTION HEATING



KPI300-148 270nF



Capacitor with cooling-system



Winding-units of capacitor

C [μ F]	Dimensions [mm]		
	B	L	H
0,05 – 0,27	65	80	43 ⁺¹
0,33 – 0,75	65	80	60
0,82 – 1,0	75	80	60
1,2 - 1,5	80	80	60

Other capacitance on request

Marking for purchase ordering:

KPI300-148 270nF \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.

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 : 3000VDC

Max permissible AC voltage: 750 V_{RMS}

Max permissible AC current: 800 A_{RMS}

Rated capacitance:

50nF \div 1,5 μ 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 Ω

ESL: lower than 5nH

Self resonant frequency of the winding unit: > 5MHz

Working frequency of the capacitors: up to 1MHz

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

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, 2min at +25°C,

All capacitors are tested by the routine test by the producer

