

KPI 300-148 0,4 uF SPECIAL HIGH POWER CAPACITORS FOR HIGH FREQUENCY INDUCTION HEATING



Measurement of the capacitors

C [μF]	Dimensions [mm]		
	B	L	H
0,4	65	80	60 ⁺¹

Other capacitance on request

Marking for purchase ordering:
KPI300-148 0,4uF ±10% 4kVDC

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: up to 4000 VDC

Max permissible AC voltage: 1250 V_{RMS} /50Hz

Rated capacitance:

0,4 uF, other capacitance on request

Tolerance: ±10%, other tolerance on request

Dissipation factor Tgδ: < 0,0003 at 1kHz and +25°C

ESR: at 100kHz and +25°C < 1mΩ

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 [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: 4500VDC, 1min at +25°C,

All capacitors are tested by the routine test by the producer

