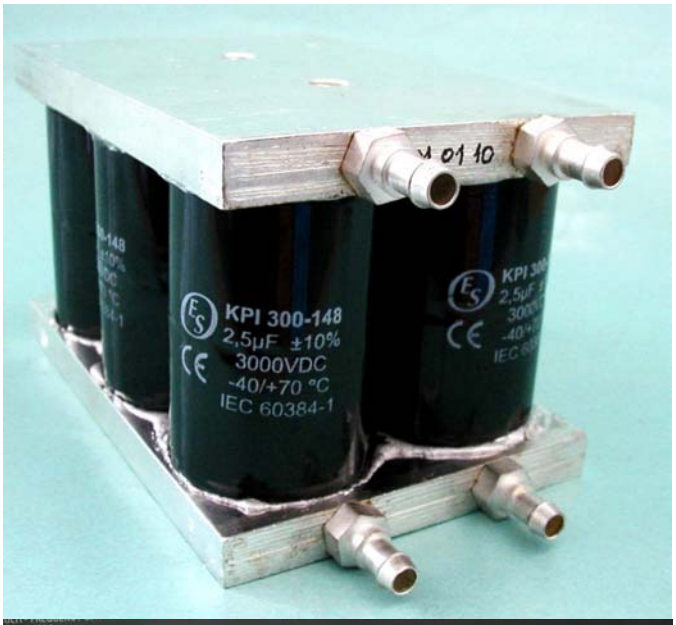
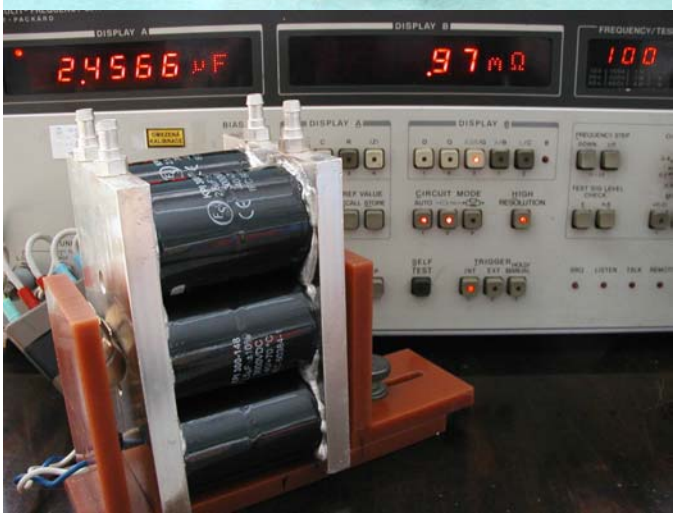
Elektronické součástky CZ, a.s.

KPI 300-148 2,5uF 3kVDC SPECIAL HIGH POWER CAPACITORS FOR HIGH FREQUENCY INDUCTION HEATING





Measurement of the capacitors at 400kHz

C [µF]	Dimensions [mm]		
	B	L	H
2,5		120	60^{+1}

Other capacitance on request

Marking for purchase ordering:
KPI300-148 2,5uF ±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:
2,5uF, 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 < 2mΩ
ESL: lower than 5nH
Self resonant frequency of the winding unit:>400kHz
Working frequency of the capacitors: up to 350kHz
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: 3500VDC, 1min at +25°C,
All capacitors are tested by the routine test by the producer