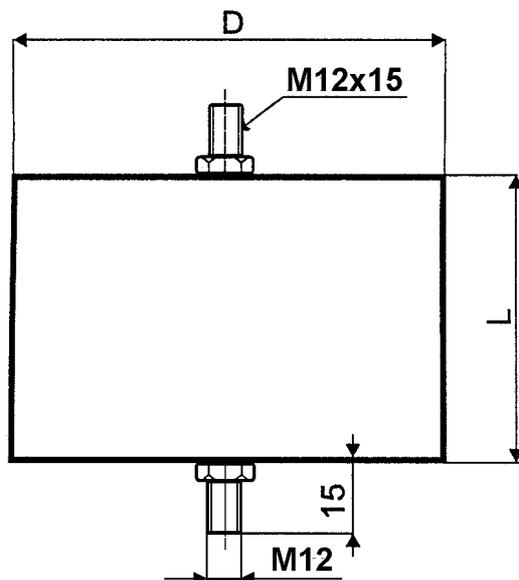


## CAPACITORS FOR HV & HIGH PULSE APPLICATIONS KPI 500 – 084



**Dimensions: D=90, L=65<sup>+1</sup>mm**

### Construction:

Metall electrodes, polypropylene film dielectricum,  
Non-inductive, self-healing construction,  
Plastic cylindrical flame retardant case

### Applications:

High pulse applications and other AC  
applications with very high pulse loading

### Technical data

**Rated voltage U<sub>R</sub>:** 5000V DC

Rated voltage is the max. DC or peak voltage,  
for which the capacitor is designed.

If the capacitor works with the DC and also  
super-imposed AC voltage U<sub>AC</sub>, the sum of DC  
and the amplitude of AC must not exceed the U<sub>R</sub>

**Rated capacitance:** 0,5µF, other values on request

**Tolerance:** ±20%, ±10%,

**Dissipation factor Tgδ:** < 0,001 at 1kHz and +25°C

**Insulation resistance R<sub>IS</sub>:** 30 000 MΩ

**Operating temperature range:** -40 ÷ +70°C

The highest permissible capacitor temperature at the  
hottest point of the case must not exceed +70°C.

**Test voltage between terminals:** 7,500VDC, 1min  
at +25°C, All capacitors are tested by the routine test  
by the producer

### Protection against Overvoltages:

The capacitors are self-healing and regenerate  
themselves after occasional breakdowns. The  
capacitor remains fully functional after the breakdown.

### Permitted Overvoltages in working conditions:

1,1 x U<sub>R</sub> max. 10% of the service period  
If the Overvoltages exceed the permissible values  
above, the capacitor might have been destroyed.

### Test voltage between terminals and case:

7500VDC, 1min. at +25°C

### Max. repetitive rate of voltage rise dU/dt:

1000V/µsec at U<sub>R</sub> and +25°C

**Max. peak current I<sub>p</sub>:** < 2000A

**Terminals:** screws M12x15

**Related standards:** IEC 60384-1

### Marking for purchase ordering:

KPI 500-084

0,5µF±10% 5000V DC

**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.