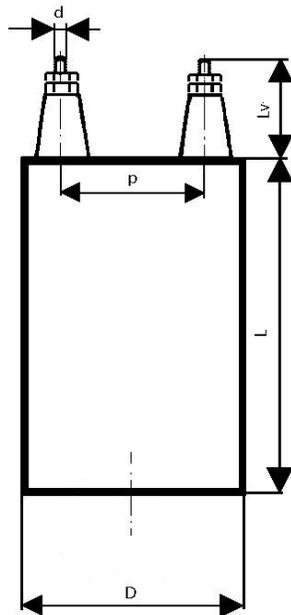


**KPI CAPACITORS FOR HIGH VOLTAGE APPLICATIONS  
KPI 500 - 052**



INFO



Capacity C <sub>R</sub> [µF]	Dimensions [mm]					
	D	L	p	L <sub>v</sub>	d	m
0,35	75	150	50 <sup>±2</sup>	20	M4	

**Construction:**

Metallic electrodes, Polyester-film dielectric, Non-inductive, self-healing construction, Plastic cylindrical flame retardant case, on request with bottom screw M10x10 also available

**Applications:**

High Voltage capacitors for DC and pulse applications, HV DC power supplies and other DC applications with high ripple current

**Technical data**

**Rated voltage U<sub>R</sub>:** 7000V 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>

**Max permissible AC voltage:** 1000V 50/60Hz, If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the max. loss power of the capacitor.

$$\text{Max. } U_{AC(t)} < \sqrt{(P_t / 2\pi f C_R)}$$

**Rated capacitance:** 0,33 - 0,5µF other capacity on request

**Tolerance:** ±10%, ±5%,

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

**Insulation resistance R<sub>IS</sub>:** >10 000/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.

**Test voltage between terminals:** 1,1xU<sub>R</sub>VDC 1min. at +25°C . All capacitors are tested by the routine test by the producer

**Protection against Over-voltages:**

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

**Permitted Over-voltages in working conditions:**

1,1 x U<sub>R</sub> max. 10% of the service period at +25°C

If the Over-voltages exceed the permissible values above, the capacitor might have been destroyed.

**Test voltage between terminals and case:**

10000VDC, 1min. at +25°C

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

< 1000V/usec at U<sub>R</sub> and +25°C

**Max. peak current I<sub>p</sub>:** < C<sub>R</sub> x dU/dt

**Terminals:** upper-screw M4

**Related standards:** IEC 60384-1

**Marking for purchase ordering:**

KPI500-052 0,35µF + 10% 7000VDC

**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.