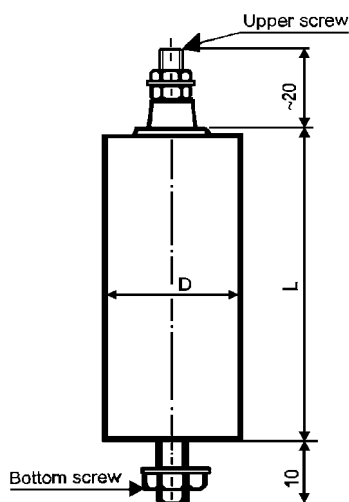


KPI 500-087 CAPACITORS FOR DC & AC APPLICATIONS



Info



| Capacit. C_R [μF] | Dimensions [mm] | | | | P_L [W] |
|-------------------------------------|-----------------|----|---|----------------|-----------|
| | D | L | p | Terminal screw | |
| 0,25 | 25 | 68 | | M6 | |
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Construction:

Metallized electrodes, polypropylene film dielectric, Non-inductive, self-healing construction, Plastic cylindrical flame retardant case, with bottom screw M6x10, or M8x10 available

Applications:

Smoothing, filtering and other DC applications
Also AC applications with low pulse loading

Technical data

Rated voltage U_R : 2000V 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_{AC} , the sum of DC and the amplitude of AC must not exceed the U_R

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.

$$U_{MAX} = \sqrt{\frac{P_L}{2\pi \times f \times C_R \times \text{tgD}}}$$

Rated capacitance: 0,1 – 2,0 μF

Tolerance: $\pm 20\%$, $\pm 10\%$,

Dissipation factor $\text{Tg}\delta$: $< 0,001$ at 1kHz and $+25^\circ\text{C}$

Insulation resistance R_{IS} : 10000/C [$\text{M}\Omega$]

Operating temperature range: $-40 \div +70^\circ\text{C}$

The highest permissible capacitor temperature at the hottest point of the case must not exceed $+70^\circ\text{C}$.

Max . permitted dissipation power of the capacitor P_L : depend on the construction of the capacitor and the cooling conditions

Test voltage between terminals: 2500VDC, 1min at $+25^\circ\text{C}$, 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: $1,1 \times U_R$ 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:

3000VDC, 1min. at $+25^\circ\text{C}$

Max. repetitive rate of voltage rise dU/dt :

$< 100\text{V}/\mu\text{sec}$ at U_R and $+25^\circ\text{C}$

Max. peak current I_p : $< C_R \times dU/dt$

Terminals: bottom screw M6 and insulated stranded wire 380mm

Related standards: IEC 60384-1

Marking for purchase ordering:

KPI500-087 0,25 $\mu\text{F} \pm 10\%$ 2000V 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.