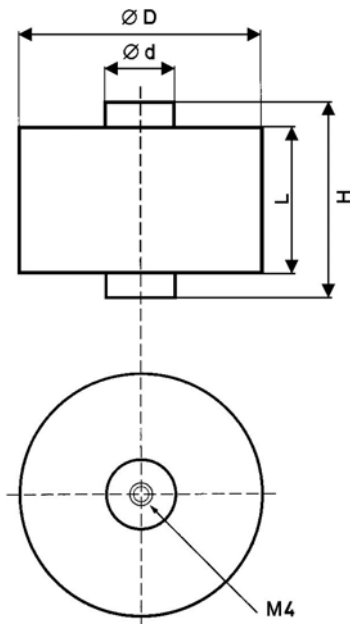




## HIGH VOLTAGE CAPACITORS MKT500-086



### Construction:

Metallized polypropylene-film dielectricum, non-inductive, self-healing construction  
Plastic cylindrical flame retardant case, with bottom and upper screw M6x10

### Applications:

High voltage pulse applications

### Technical data

**Rated voltage  $U_R$ :** 12 000VDC

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:** 6000V 50/60Hz

**Rated capacitance:** 1nF

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

**Dissipation factor  $Tg\delta$ :**  $< 0,01$  at 1kHz and  $+25^\circ\text{C}$

**Insulation resistance  $R_{IS}$ :**  $> 2000\text{M}\Omega$

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

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

**Test voltage between terminals:** 15 000VDC, 1min. at  $+25^\circ\text{C}$ , all capacitors are tested by the routine test by the producer

**Permitted over voltages in working conditions:**

$1,1 \times U_R$  for 2 sec.

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

**Test voltage between terminals and case:**

15 000VDC, 1min. at  $+25^\circ\text{C}$

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

$< 1\text{V}\mu\text{sec}$  at  $U_R$  and  $+25^\circ\text{C}$

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

**Terminals:** screws M6x10

**Related standards:** IEC 60384-1

**Marking for purchase ordering:**

MKT500-086 1,0nF 6000VAC/12/15kVDC

| C*<br>[nF] | Dimensions [mm] |    |   |
|------------|-----------------|----|---|
|            | D               | L  | d |
| 1,0        | 30              | 45 | 8 |
|            |                 |    |   |
|            |                 |    |   |

Other capacitance on request

**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.