



## CAPACITORS FOR HIGH VOLTAGE & PULSE APPLICATIONS KT 500 – 112



### Construction:

Metallic electrodes, Polyester-film dielectric, Non-inductive self healing construction, Special flat construction with stranded wire outlets

### Applications:

High Voltage capacitors for DC and pulse applications.

### Technical data

**Rated voltage  $U_R$ :** 5000V DC at +100°C  
4000V DC at +125°C

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:** 1700V 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.

**Rated capacitance:** 0,18 uF

**Tolerance:** -0 ÷ +10%

**Dissipation factor  $Tg\delta$ :** < 0,006 at 1kHz and +25°C

**Insulation resistance  $R_{IS}$ :** >10 000MΩ

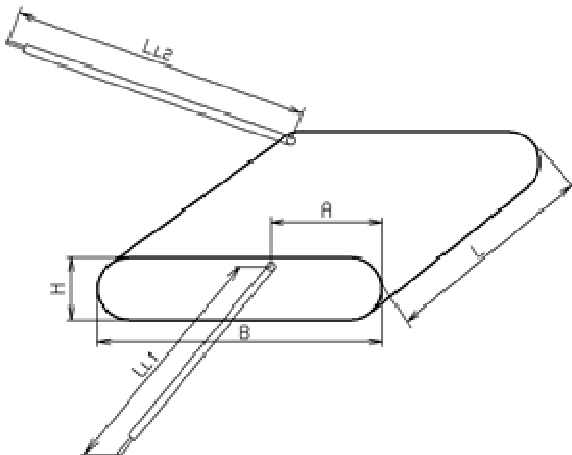
**Operating temperature range:** -40 ÷ +125°C

The highest permissible capacitor temperature at the hottest point of the case must not exceed +125°C.

Capacity $C_R$ [μF]	Dimensions [mm]			
	B	H	L	$L_L$
0,18	$64^{+0,5}$	$14^{+0,5}$ max	$68^{+0,5}$	$25 \pm 3$

$L_{L1} = 90^{+5}$ mm

$L_{L2} = 170^{+5}$ mm



**Test voltage between terminals:** 5,5kVDC 10sec /+25°C

All capacitors are tested by the routine test by the producer

### Permitted Over-voltages in working conditions:

$1,1 \times U_R$  max. 10% of the service period

If the workin temperature is +125°C  $U_R$  max 4000VDC

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

### Test voltage between terminals and case:

6000VDC, 1min. at +25°C

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

< 1000V/usec at  $U_R$  and +25°C

### Max. peak current $I_p$ :

<  $C_R \times dU/dt$

**Terminals:** Cooper – strips with the length  $L_L$ , other terminals on request

**Related standards:** IEC 60384-1, IEC60384-2

### Marking for purchase ordering:

KT500-112 0,18uF 5000VDC

**Warning!** The manufacturer is not responsible for any damages, caused by the improper installation and application. Before using the capacitor in any application, pleas, read carefully this technical data-sheet.