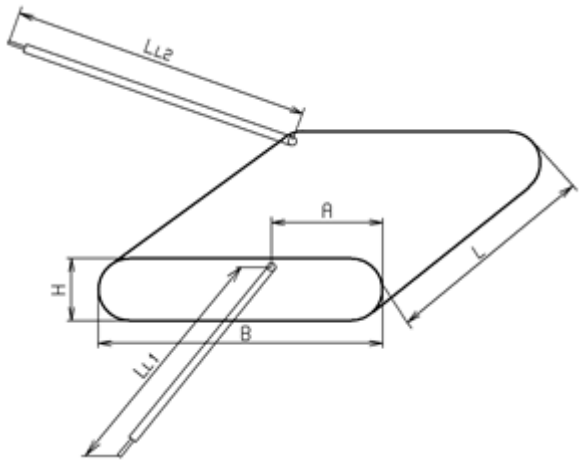
# Elektronické součástky CZ, a.s.

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


| Capacity $C_R$ [µF] | Dimensions [mm] | | | |
|---|---|---|---|---|
| | B | H | L | $L_L$ |
| | | | | |
| 0,30 | $64^{+0,5}$ | $14^{+0,5}$max | $68^{+0,5}$ | 25±3 |
| | | | | |

$L_{L1}=110^{+5}$mm
$L_{L2}=190^{+5}$mm




**Construction:**
Metallic electrodes, Polyester-film dielectric, non-inductive self healing construction,
Special flat construction in plastic case, 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:** 0,30 uF
**Tolerance:** -0 ÷ +10%
**Dissipation factor Tgδ:** < 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.

**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 x $U_R$ 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 $I_p$:** < $C_R$ x dU/dt
**Terminals:** stranded wire silicon 0,5mm2 with the length $L_{L1}$ and $L_{L2}$
**Related standards:** IEC 60384-1, IEC60384-2
**Marking for purchase ordering:**
KT500-112P 0,30uF 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.