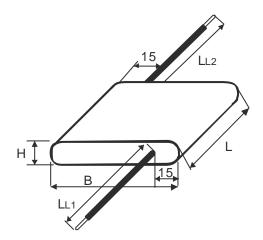# Elektronické součástky CZ, a.s.

CAPACITORS FOR HIGH VOLTAGE & PULSE APPLICATIONS
KT 500 – 095NN 0,5uF 3500VDC

Capacity C_R [μF]	Dimensions ±1,5 [mm]			
	B	**H**	**L**	
0,5	65	15	70	

L_{L1}=60±5mm
L_{L2}=60±5mm

Construction:
Metallic electrodes, polypropylene-film dielectric, non-inductive self healing construction, special flat construction, surface coating by polyester film tape wraped, epoxy resin sealed.
Terminals:
stranded wire silicon 0,5mm² with the length L_{L1} and L_{L2}

Applications:
High Voltage capacitors for DC and pulse applications.
Technical data
Rated voltage U_R: 3500V DC at +85ºC

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.
Rated capacitance: 0,5 uF
Tolerance: ±10%
Dissipation factor Tgδ: < 0,006 at 1kHz and +25ºC
Insulation resistance R_{IS}: >10 000MΩ
Operating temperature range: -40 ÷ +120ºC
The highest permissible capacitor temperature at the hottest point of the case must not exceed +100ºC.

Test voltage between terminals: 4kVDC 10sec. at +25ºC
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 working temperature is+100°C U_R max 2500VDC
If the Over-voltages exceed the permissible values above, the capacitor might have been destroyed.
Max. repetitive rate of voltage rise dU/dt:
< 1000V/usec at U_R and +25ºC
Max. peak current I_p: < C_R x dU/dt

Related standards: IEC 60384-1
Marking for purchase ordering:
KT 500-095NN 0,5uF 10% 3500VDC

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.