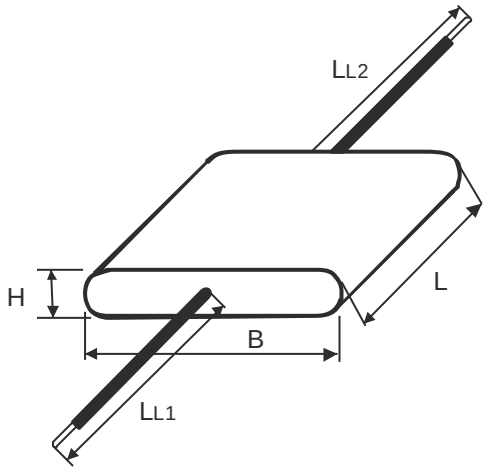
Elektronické součástky CZ, a.s.

CAPACITORS FOR HIGH VOLTAGE & PULSE APPLICATIONS
KPI 300 – 201PB

Capacity C_R [µF]	Dimensions [mm]			
	B	H	L	
0,5	$72^{+0,5}$	$24^{+0,5}$max	$68^{+0,5}$	

$L_{L1}=90^{+5}$mm
$L_{L2}=170^{+5}$mm



Construction:
Metallic electrodes, polypropylen-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: 2500V DC at +85°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: 800V 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: < 0,0004 at 1kHz and +25°C
Insulation resistance R_{IS}: >10 000MΩ
Operating temperature range: -40 ÷ +85°C
The highest permissible capacitor temperature at the hottest point of the case must not exceed +100°C.

Test voltage between terminals: 2,5kVDC 10sec. at +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 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 +25°C
Max. peak current I_p: < C_R x dU/dt

Related standards: IEC 60384-1
Marking for purchase ordering:
KPI 300-201PB 0,5uF 10% 2500VDC

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.