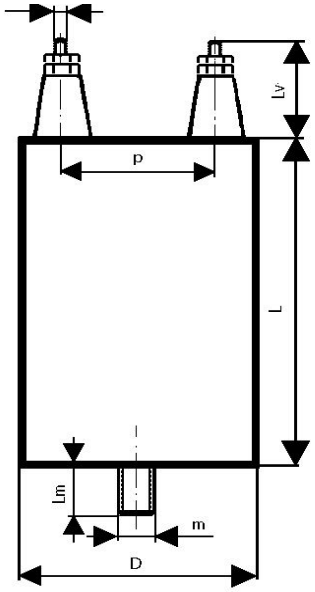
Elektronické součástky CZ, a.s.

KPI 500-105 CAPACITORS FOR DC & AC APPLICATIONS

Construction L

NFO



Capacity [uF]	Dimensions [mm]			Weight [g]
	D	L	p	
0,5	75	125	40	

Construction:
Metallic electrodes, polypropylene film dielectric, non-inductive, self-healing construction,
Plastic cylindrical flame retardant case
Leads are screws M6x10 on the upper face of the case. Bottom screw M8x15 for mounting.

Applications:
DC and AC applications with high pulse loading
Technical data
Rated voltage U_R: 6300V DC
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: 2000V 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: 0,5uF,
other capacity on request
Tolerance: ±20%, ±10%,
Dissipation factor Tgδ: < 0,0006 at 100Hz and +25°C
Operating temperature range: -40 ÷ +70°C
The highest permissible capacitor temperature at the hottest point of the case must not exceed +70°C.
Max . permitted dissipation power of the capacitor depend on the construction of the capacitor and the cooling conditions
Test voltage between terminals: 7,5 kVDC, 10sec. at +25°C,
All capacitors are tested by the routine test by the manufacturer
Protection against Over-voltages:
The capacitors are self-healing and regenerate themselves after occasional breakdowns**.** The capacitor remains fully functional after the breakdown.
Permitted Over-voltages in working conditions:
1,1 x U_R max. 10% of the service period
If the Over-voltages exceed the permissible values above, the capacitor might have been destroyed.
Test voltage between terminals and case:
10 kVDC, 1min. at +25°C
Max. repetitive rate of voltage rise dU/dt:
< 1000V/µsec 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:
KPI500-105 0,5 uF±10% 6,3 kV DC
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.