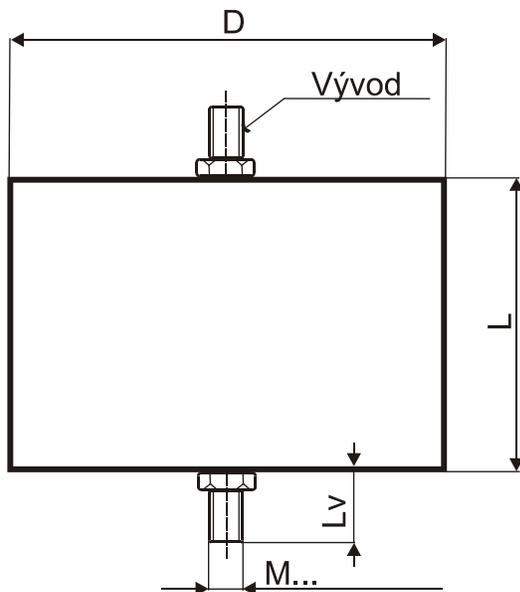# CAPACITORS FOR HV & HIGH PULSE APPLICATIONS
KPI 500 – 094

Info

Dimensions: D= 75 , L=75^{+1}mm

Construction:
Metallic electrodes, polypropylene film dielectric,
Non-inductive, self-healing construction,
Plastic cylindrical flame retardant case

Applications:
High pulse applications and other AC
applications with very high pulse loading

Technical data

Rated voltage U$_R$: 10 000V 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$_R$

Rated capacitance: 0,1μF, other values on request
Tolerance: ±20%, ±10%,
Dissipation factor Tgδ: < 0,001 at 1kHz and +25°C
Insulation resistance R$_{IS}$: 30 000 MΩ

Operating temperature range: -40 ÷ +70°C
The highest permissible capacitor temperature at the
hottest point of the case must not exceed +70°C.

Test voltage between terminals: 12 000VDC, 1min
 at +25°C, All capacitors are tested by the routine test
by the producer

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:
20 000VDC, 1min. at +25°C
Max. repetitive rate of voltage rise dU/dt:
2000V/μsec at U$_R$ and +25°C

Max. peak current I$_p$ = C x dU/dt

Terminals: screws M10x15
Related standards: IEC 60384-1

Marking for purchase ordering:
KPI 500-094
0,1μF±10% 10 000V 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.