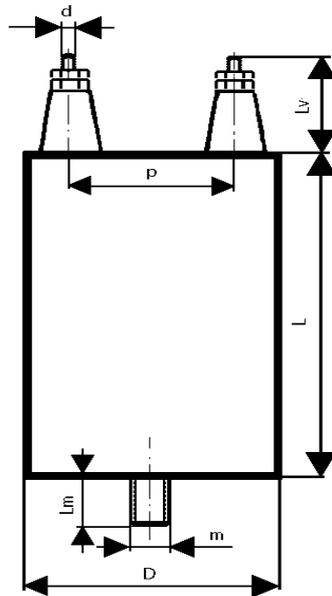




KPI 500 – 078 HIGH VOLTAGE CAPACITORS



C [µF]	Dimensions [mm]						P _L [W]
	D	L	L _v max	p	m	d	
0,5	55	95	20	35	M8x1 0	M4	12

Construction:

Metal foil electrodes, polypropylene-film dielectricum,
Non-inductive, self-healing construction
Plastic cylindrical flame retardant case, with bottom
screw M8x10

Applications:

High voltage pulse applications, high frequency and
high peak current applications, snubber applications.

Technical data

Rated voltage U_R: 2500DC

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: 900V 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.

$$U_{MAX} = \sqrt{\frac{P_L}{2\pi \times f \times C_R \times tg\delta}}$$

Rated capacitance: 0,5µF ÷ 1,0µF

Tolerance: ±20%, ±10%,

Dissipation factor Tgδ: < 0,001 at 1kHz and +25°C

Insulation resistance R_{IS}: >10 000MΩ

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
P_L:** depend on the construction and the cooling
conditions, see table

Test voltage between terminals: 1,2 x U_R, 1min. at
+25°C, all capacitors are tested by the routine test by
the producer

Permitted overvoltages in working conditions:

1,1 x U_R for 2 sec.

If the overvoltages exceed the permissible values
above, the capacitor might have been destroyed.

Test voltage between terminals and case:

3000VDC, 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: screws M4

Bottom-screw M10x15, or M10x20

Related standards: IEC 60384-1

Marking for purchase ordering:

KPI500-078 0,5µF 2500VDC

Warning! The manufacturer is not responsible for any damages, caused by the improper installation
and application. Before using the capacitor in any application, please, read carefully this technical data-sheet.