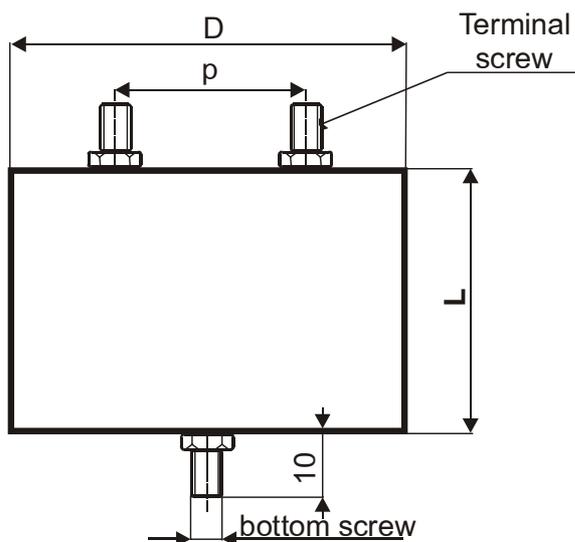




MKPI 300-159 CAPACITORS FOR AC AND PULSE APPLICATIONS



Capacity C_R [µF]	Dimensions [mm]				
	D	L	p	Terminal screw	P_L [W]
1	40	50	25	M6	2,0
1,5	45	50	30	M6	2,5
2	55	50	30	M6	3
2,5	55	50	30	M6	3
3	60	50	40	M6	3,5
4	75	50	40	M8	5
5	75	50	40	M8	5
6	85	50	50	M8	6
8	95	50	50	M8	7
10	105	50	50	M8	8

Construction:

Double side metallized electrodes, polypropylene film dielectric, Non-inductive, self-healing construction, Plastic cylindrical flame retardant case, with bottom screw M8x10, or M10x15 available

Applications:

Snubber capacitors, pulse and other AC applications

Technical data

Rated voltage U_R : 2000V 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: 600V 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.

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

Rated capacitance: 1 – 10µF

Tolerance: ±10%, ±5%,

Dissipation factor $\text{Tg}\delta$: < 0,001 at 1kHz and +25°C

Insulation resistance R_{IS} : >30 000/°C [MΩ; µF]

Operating temperature range: -40 ÷ +85°C

The highest permissible capacitor temperature at the hottest point of the case must not exceed +85°C.

Max. permitted dissipation power of the capacitor P_L depend on the construction of the capacitor and the cooling conditions.

Test voltage between terminals: 1,25 x U_R , 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: 3000VDC, 1min. at +25°C

Max. repetitive rate of voltage rise dU/dt : < 250V/µsec at U_R and +25°C

Max. peak current I_p : < $C_R \times dU/dt$ [A; µF, V/µsec]

Terminals: screws M6 or M8

Related standards: IEC 60384-1

Marking for purchase ordering:

MKPI300-159 2µF±10% 2000VDC

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.