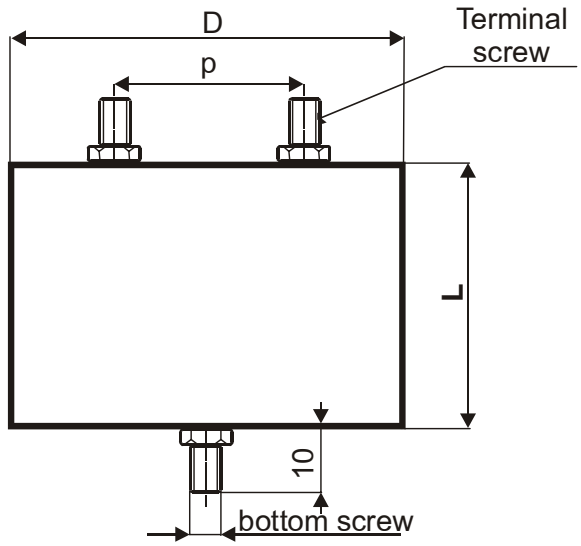
Elektronické součástky CZ, a.s.

MKPI 300-159 CAPACITORS FOR AC AND PULSE APPLICATIONS



Capacit. C_R [µF]	Dimensions [mm]				
	D	L	p	Terminal screw	P_L [W]
1	40	50	30	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 dielectricum, 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.

$$\text{Max.}U_{AC}(f) < \sqrt{\frac{P_L}{2\pi f C_R}}$$

Rated capacitance: 1 – 10µF
Tolerance: ±10%, ±5%,
Dissipation factor Tgδ: < 0,001 at 1kHz and +25°C
Insulation resistance R_{IS}: >30 000/C [MΩ]
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, see table.
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 Overvoltages:
The capacitors are self-healing and regenerate themselves after occasional breakdowns**.** The capacitor remains fully functional after the breakdown.
Permitted Overvoltages in working conditions:
1,1 x U_R max. 10% of the service period
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:
< 250V/µsec at U_R and +25°C
Max. peak current I_p: < C_R x dU/dt

Terminals: screws M6 or M8

Related standards: IEC 60384-1

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.