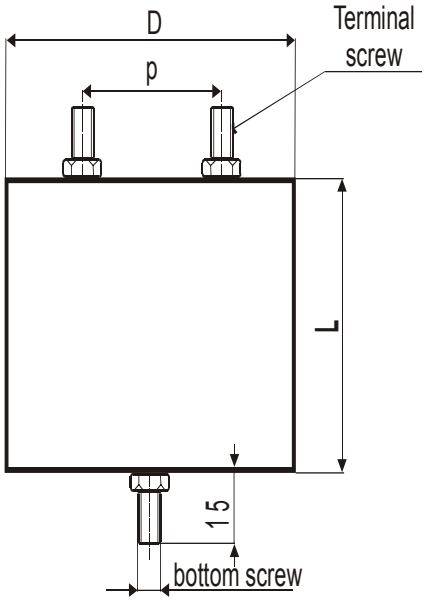
Elektronické součástky CZ, a.s.

MKP 300-209 CAPACITORS FOR AC HIGH PULSE LOADING



Capacit. C_R [µF]	Dimensions [mm]				
	D	L	p	Terminal screw	
2	55	120	25	M6x10	

Other Capacitance on request

Construction:
Metalic electrodes, polypropylene film dielectric,
Non-inductive, self-healing construction,
Plastic cylindrical flame retardant case,
on request with bottom screw M8x10 available
Applications:
High pulse loading, high current and other AC applications
Technical data
Rated voltage U_R: 1600V 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.

$$\text{Max.}\,U_{AC}(f) = \sqrt{\frac{P_L}{2\pi f\, C_R \times \text{tg}\delta}}$$

Rated capacitance: up to 2µF
Tolerance: ±10%, ±5%,
Dissipation factor Tgδ: < 0,0006 at 1kHz and +25°C
Insulation resistance R_{IS}: > 10000 [MΩ]
Operating temperature range: -55 ÷ +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, 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 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:
< 1000V/µsec at U_R and +25°C
Max. peak current I_p: < C_R x dU/dt

Terminals: screws M6x10

Related standards: IEC 60384-1

Marking for purchase ordering:
MKP300-209 2uF±10% 1600VDC/600V 50Hz

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.