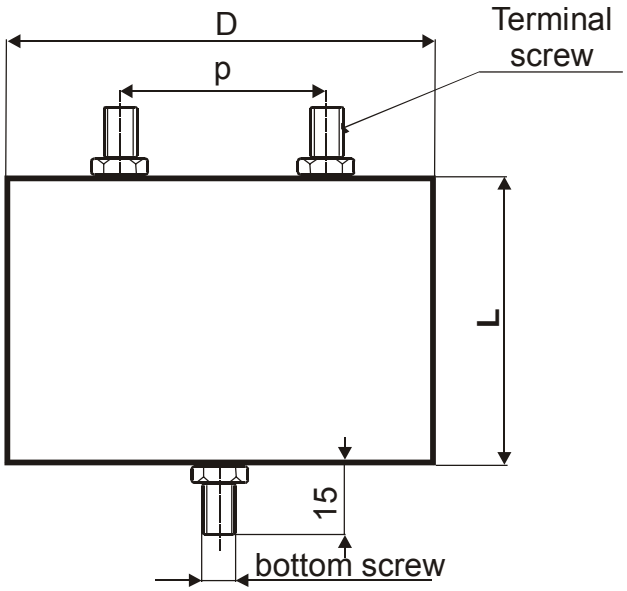
Elektronické součástky CZ, a.s.

MKP 300-198 CAPACITORS FOR DC& AC APPLICATIONS

INFO



Capacity C_R [µF]	Dimensions [mm]		
	D	L	p
10	75	100	50

Other values on request

Construction:
Metallized electrodes, polypropylene film dielectric, Internal series connection, non-inductive, self-healing construction,
Plastic cylindrical flame retardant case, with bottom screw M10x15 available

Applications:
DC and 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: 500V 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: 10µF other capacitance on request
Tolerance: ±10%, ±5%,
Dissipation factor Tgδ: < 0,006 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
Test voltage between terminals:
1,6x U_R= 2600VDC, for 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:
< 20V/µsec at U_R and +25°C
Max. peak current I_p: < C_R x dU/dt

Terminals: screws M6 or M8, Fast-on 0,8x6,3

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.