KPI 300-123

Electronic components CZ
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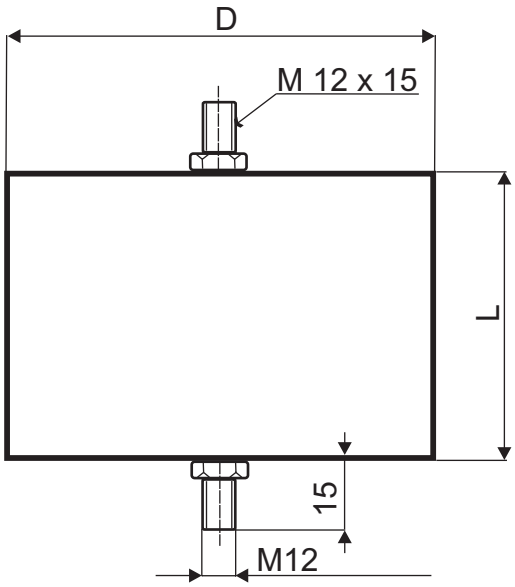

Capacit. C_R [µF]	Dimension [mm]			
	D	L	Terminal screw	P_L [w]
0,5	75	75	M 12	6

Construction:

Polypropylene film capacitors, Non-inductive, self-healing construction.Plastic cylindrical flame retardant case, with bottom screw M 12 x 15.

Applications:
Filtering, smoothing, all other AC and DC applications with dU/dt < 1000 V/µsec

Technical data

Rated voltage U_R: 3000 VDC
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:
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: 0,5µF
Tolerance: 10%, 5%
Dissipation factor Tgδ: < 0,001 at 1kHz and +25°C
Insulation resistance R_{IS}: >100 [GΩ]
Operating temperature range: -55 ÷ +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 cooling conditions.
Test voltage between terminals: 1,25 × U_R, 1min. at +25°C
All capacitors are tested by the routine test by the manufacturer
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:
1,10 × U_R max. 30% of the service period
1,15 × U_R max.30min./day
1,20 × U_R max. 5min./day
1,30 × U_R max. 1min./day
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:
< 500V/µsec at U_R and +25°C
Max. peak current I_p: < C_R × dU/dt
Terminals: M 12 x 15
Related standards: IEC 60384-1, IEC 60384-17

Marking for purchase ordering: KPI 300-123

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.